WEST COAST DATA INVENTORY AND APPRAISAL

VOLUME 1 (PART 1)

Dixon Extrance, Hecate Strait, Queen Charlotte Sound and Adjoining B.C. Coastal Waters: Physical Oceanography - Temperature, Salinity, Currents, Water Levels and Waves 1903 through 1984

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1985

CANADIAN DATA REPORT OF
HYDROGRAPHY AND OCEAN SCIENCES
NO. 37

86-03584/

Canadian Data Report Of Hydrography and Ocean Sciences

These reports provide a medium for the documentation and dissemination of data in a form directly useable by the scientific and engineering communities.

Generally, the reports will contain raw and/or analyzed data but will not contain interpretations of the data. Such compilations will commonly have been prepared in support of work related to the programs and interests of the Ocean Science and Surveys (OSS) sector of the Department of Fisheries and Oceans.

Data Reports are produced regionally but are numbered and indexed nationally. Requests for individual reports will be fulfilled by the issuing establishment listed on the front cover and title page. Out of stock reports will be supplied for a fee by commercial agents.

Regional and headquarters establishments of Ocean Science and Surveys ceased publication of their various report series as of December 1981. A complete listing of these publications and the last number issued under each title are published in the *Canadian Journal of Fisheries and Aquatic Sciences*, Volume 38: Index to Publications 1981. The current series began with Report Number 1 in January 1982.

Rapport statistique canadien sur l'hydrographie et les sciences océaniques

Ces rapports servent de véhicule pour la compilation et la diffusion des données sous une forme directement utilisable par les scientifiques et les techniciens.

En général, les rapports contiennent des données brutes ou analysées mais ne fournissent pas d'interprétations des données. Ces compilations sont préparées le plus souvent à l'appui de travaux reliés aux programmes et intérêts du service des Sciences et Levés océaniques (SLO) du ministère des Pêches et des Océans.

Les rapports statistiques sont produits à l'échelon régional mais sont numérotés et placés dans l'index à l'échelon national. Les demandes de rapports seront satisfaites par l'établissement auteur dont le nom figure sur la couverture et la page de titre. Les rapports épuisés seront fournis contre rétribution par des agents commerciaux.

Les établissements des Sciences et Levés océaniques dans les régions et à l'administration centrale ont cessé de publier leurs diverses séries de rapports depuis décembre 1981. Vous trouverez dans l'index des publications du volume 38 du *Journal canadien des sciences halieutiques et aquatiques*, la liste de ces publications ainsi que le dernier numéro paru dans chaque catégorie. La nouvelle série a commencé avec la publication du Rapport n° 1 en janvier 1982.

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Dixon Entrance, Hecate Strait, Queen Charlotte Sound
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Physical Oceanography - Temperature, Salinity,
Currents, Water Levels and Waves
1903 through 1984

by

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PREFACE

To manage Canadian West Coast waters competently, there is a fundamental requirement to review the sufficiency and suitability of the available scientific data for many purposes - such as engineering design, regulation, assessment, planning, research and monitoring. We consider this review to consist of three phases: (i) the cataloguing, mapping and methods-appraisal of all existing data sets; (ii) the actual scrutiny of the data themselves and the judgement of their utility for answering management questions; and (iii) the analysis and interpretation of the best of these data.

This inventory, which indexes the physical-oceanographic data of Dixon Entrance, Hecate Strait, Queen Charlotte Sound and adjoining waters, is considered a major contribution to phase (i). It has been produced by the Ocean Information Division at the Institute of Ocean Sciences, Department of Fisheries and Oceans, as part of a Data Inventory and Appraisal Program. Contract projects, supervised by government scientists and funded by numerous federal agencies, have examined all known marine-data sets which contain oceanographic information obtained in the areas in question. Evaluation of the data-set quality has been carried out by careful examination of the documentation for methodologies used in sampling, storage and analysis.

It is our hope that this inventory will assist you, both in establishing the usefulness of existing data for whatever particular purpose contemplated, and in assessing the confidence to be placed in the interpretations. In addition, it should aid in setting priorities for archiving large quantities of data into the Department's Marine Environmental Data Service (MEDS) in Ottawa.

L. F. Giovando
B. D. Smiley
Scientific Coordinators
Canadian West Coast Compilation
and Appraisal Series

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ABSTRACT

Birch, J.R., E.C. Luscombe, D.B. Fissel and L.F. Giovando. West Coast Data Inventory and Appraisal. Volume 1. Dixon Entrance, Hecate Strait, Queen Charlotte Sound and Adjoining B.C. Coastal Waters: Physical Oceanography - Temperature, Salinity, Currents, Water Levels and Waves, 1903 through 1984. Can. Data Rep. Hydrogr. Ocean Sci. 37:(Vol. 1, Part 1, 302 p., Part 2, 265 p.)

This volume is one of a group of catalogues designed to inventory and appraise marine data sets collected in waters off the west coast of Canada. For user convenience, the group has been organized with its subject matter divided into three general disciplines: physics, chemistry and biology. The format throughout has been structured to facilitate comparison among subjects and regions. With such a large undertaking it is not possible to provide all catalogues at once; the present volume deals with physics only.

Data collection is a continuing process and further updates of these inventories are planned. Readers are requested to submit corrections and additions by writing the issuing establishment. Such corrections will be incorporated in on-line computerized data set listings and will be continuously available upon request.

Key words: British Columbia, Dixon Entrance, Hecate Strait, Queen Charlotte Sound, inventory, salinities, temperatures, currents, water levels, waves.

SOMMAIRE

Birch, J.R., E.C. Luscombe, D.B. Fissel and L.F. Giovando. West Coast Data Inventory and Appraisal. Volume 1. Dixon Entrance, Hecate Strait, Queen Charlotte Sound and Adjoining B.C. Coastal Waters: Physical Oceanography - Temperature, Salinity, Currents, Water Levels and Waves, 1903 through 1984. Can. Data Rep. Hydrogr. Ocean Sci. 37:(Vol. 1, Part 1, 302 p., Part 2, 265 p.)

Le présent volume fait partie d'un groupe de catalogues destinés à faire l'inventoire de et à évaluer les séries de données marines sur la côte ouest du Canada. Pour plus de commodité, la question traitée est structurée en trois grandes disciplines: physique, chimie et biologie. Les catalogues sont présentés de façon à faciliter la comparaison entre les sujets et les régions. Le domaine est si vaste qui'il est impossible de fournir tous les catalogues en une seule fois; le présent volume traite seulement la physique.

La collecte des données est un processus permanent et il est prévu de mettre à jour ces inventoires par la suite. Les lecteurs sont invités à soumettre par écrit les corrections et les additions à l'établissement auteur. Ces corrections seront traitées en direct sur ordinateur et incorporées aux listages qui pourront être obtenus sur demande.

Mots-clés: Colombie-Britannique, Dixon Entrance, Hecate Strait, Queen Charlotte Sound, inventoire, salinités, températures, courants, niveaux de la mer, ondes.

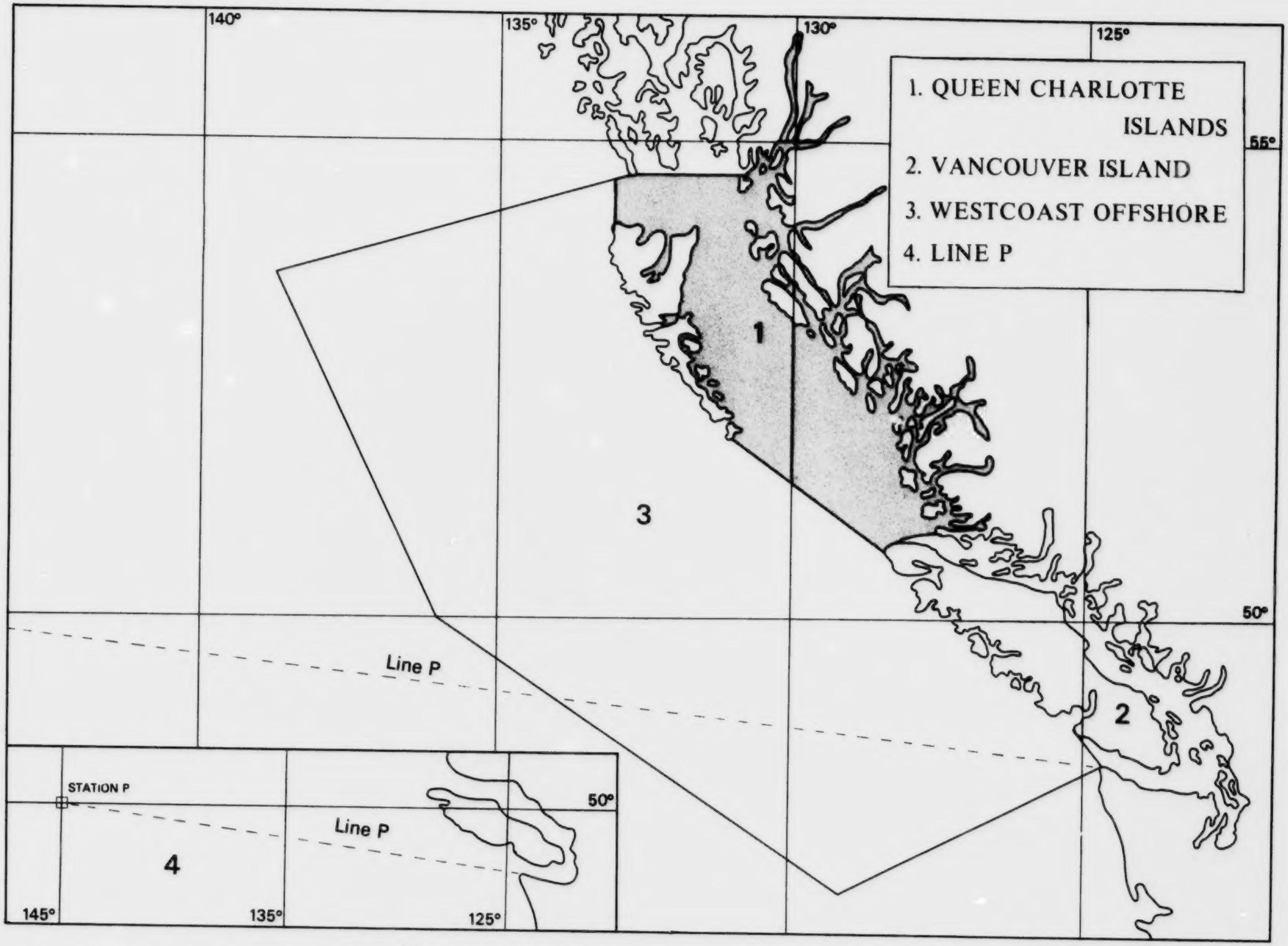
ACKNOWLEDGEMENTS

We thank Mr. G. Floyd for the supervision of ID number assignment and map production and Ms. L.S.C. Thomson for technical editing. Use was made of the MEDS and NODC data bases, as well as earlier inventories by Tabata (1980) and Dodimead (1980). We would like to thank the following for providing information and reviewing the manuscript: Dr. R. Thomson, Mr. D. Stucchi, Mr. A. Douglas, Mr. F. Stephenson, Dr. W. Crawford, and Dr. H. Freeland of the Institute of Ocean Sciences; Mr. D. Goyette of the Environmental Protection Service; and Mr. A. Dodimead of the Pacific Biological Station, Nanaimo. We appreciate the cooperation of Mr. R. Killam of AMAX Canada for permitting us access to their Alice Arm data. Special thanks are also due to the following Arctic Sciences Ltd. personnel: Ms. S. Norton, Mrs. J. Oberski, Mr. N. Goody, and Ms. N. Andrew for preparing the manuscript and Mr. R. Chave for computer program development.

WEST COAST DATA INVENTORY AND APPRAISAL

VOLUME 1 (PART 1)

Dixon Entrance, Hecate Strait, Queen Charlotte Sound and Adjoining B.C. Coastal Waters: Physical Oceanography


1. QUEEN CHARLOTTE ISLANDS
2. VANCOUVER ISLAND
3. WESTCOAST OFFSHORE
4. LINE P
140°
135°
130°
125°
55°
50°
1
2
3
4
Line P
STATION P
50°
Line P
145°
135°
125°

The area covered by this volume is shaded.

VOLUME 1: Dixon Entrance, Hecate Strait, Queen Charlotte Sound and Adjoining B.C. Coastal Waters: Physical Oceanography - Temperature, Salinity, Currents, Water Levels and Waves, 1903 through 1984.

VOLUME ABSTRACT

This inventory represents a catalogue of physical-oceanographic data collected in Dixon Entrance, Hecate Strait, Queen Charlotte Sound and the adjacent shoreward waters. Times and locations of measurements are listed and displayed graphically for temperature-salinity, current-meter, water-level, wave and drifter data. Yearly plots showing the locations of all measurements are included, as is an index of references by data set number. References and sources are listed for all data included in the inventory.

Key words: British Columbia, Dixon Entrance, Hecate Strait, Queen Charlotte Sound, inventory, salinities, temperatures, currents, water levels, waves.

1. INTRODUCTION

In this report, the physical oceanographic data collected in Dixon Entrance, Hecate Strait, Queen Charlotte Sound and the adjacent shoreward waters are catalogued. The information provided includes the time and locations of measurements, the parameters measured, and the type of instrumentation. The data themselves are not included, but a source for the data and any reports or references utilizing the data are cited wherever possible. This will enable potential users of the data to determine what is available in their area of interest, what data were collected using a specific measurement technique, and whether those data may be of value.

About 350 data sets collected from 1903 through 1984 are summarized in Table 2.

The station header information is to be added to the ongoing data base at the Institute of Ocean Sciences, Sidney, B.C. As new data and/or previously-inaccessible data become available, they will be added to a computerized data base maintained by the Ocean Information Division. Information concerning new data sets, older data sets which are not in the catalogue, or errors, should be submitted to the Ocean Information Division of the Institute of Ocean Sciences.

2. STUDY AREA

The study area is indicated in Figure 1. Included are the three main bodies of water - Dixon Entrance, Hecate Strait and Queen Charlotte Sound - as well as all the adjoining inlets and sounds. Most of the area overlies the continental shelf, and has depths of less than 200 m. Troughs, having depths in excess of 300 m, cut into Dixon Entrance and Queen Charlotte Sound . Off the entrance to Portland Inlet, depths of 700 m have been recorded. The fjords often are characterized by sills and/or an estuarine circulation driven by freshwater input from land runoff. Thomson (1981a) provides a good overall description of the oceanography of the area.

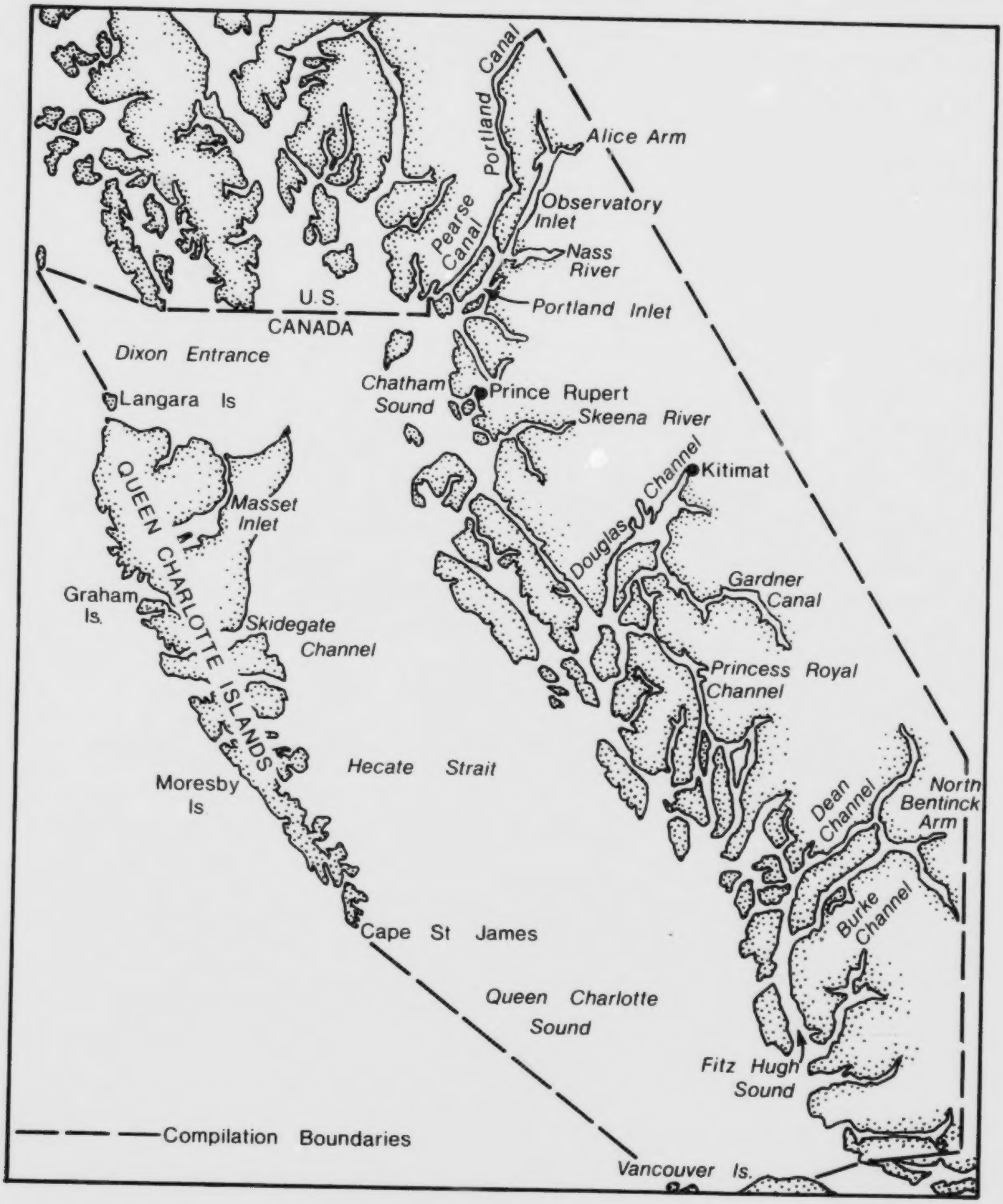
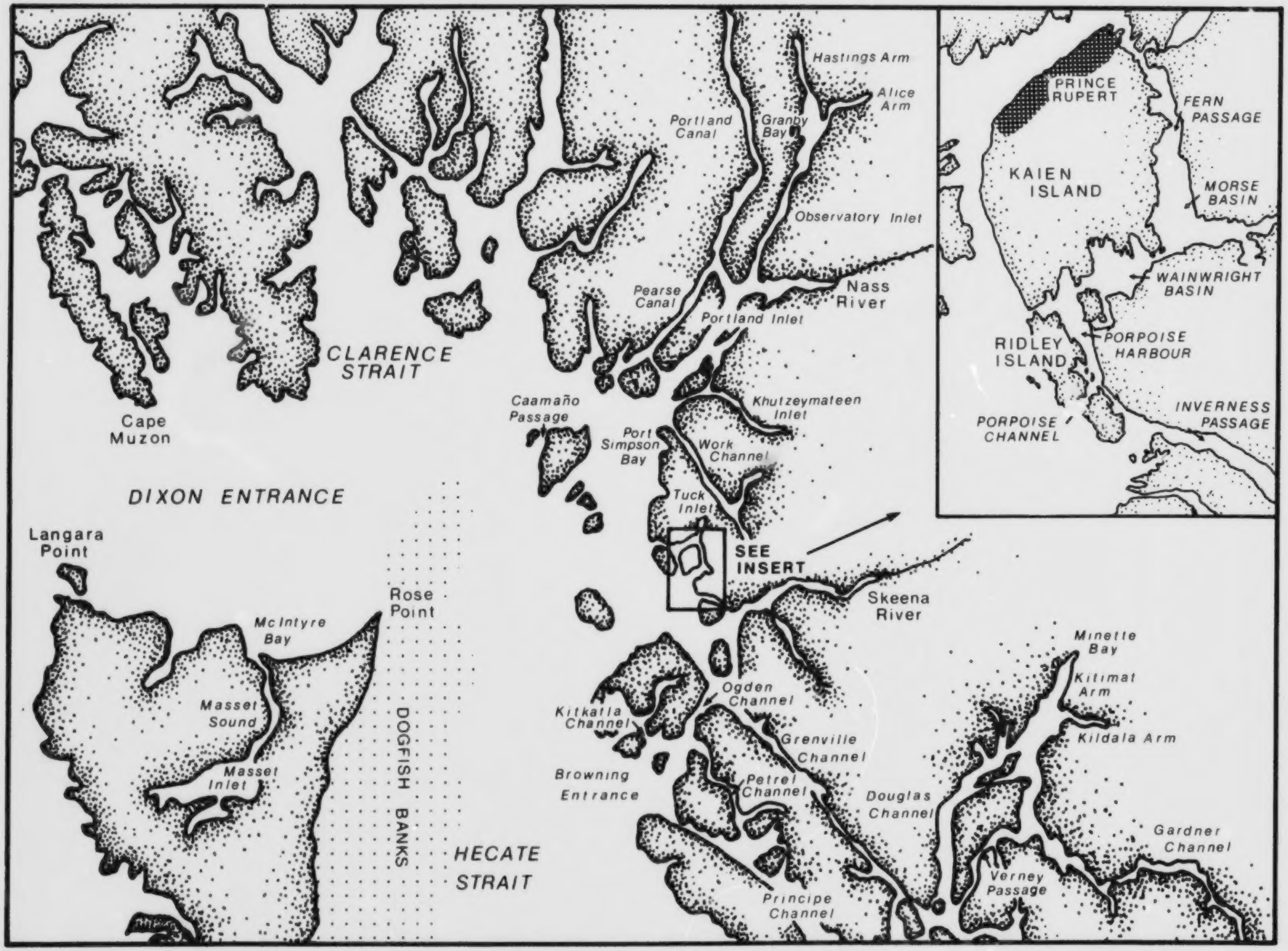

Portland Canal
Alice Arm
Observatory Inlet
Pearse Canal
Nass River
Portland Inlet
U.S.
CANADA
Dixon Entrance
Chatham Sound
Prince Rupert
Skeena River
Langara Is
Kitimat
Douglas Channel
QUEEN CHARLOTTE ISLANDS
Masset Inlet
Graham Is.
Gardner Canal
Skidegate Channel
Princess Royal Channel
Hecate Strait
Moresby Is
Dean Channel
North Bentinck Arm
Burke Channel
Cape St James
Queen Charlotte Sound
Fitz Hugh Sound
Compilation Boundaries
Vancouver Is.

Figure 1a: Major placenames in the area covered by this data inventory.



CLARENCE STRAIT
Cape Muzon
DIXON ENTRANCE
Langara Point
Rose Point
McIntyre Bay
Masset Sound
Masset Inlet
DOGFISH BANKS
HECATE STRAIT
Caamaño Passage
Port Simpson Bay
Portland Canal
Granby Bay
Hastings Arm
Alice Arm
Observatory Inlet
Pearse Canal
Portland Inlet
Nass River
Khutzeymateen Inlet
Work Channel
Tuck Inlet
SEE INSERT
Skeena River
Ogden Channel
Kitkatla Channel
Grenville Channel
Browning Entrance
Petrel Channel
Douglas Channel
Principe Channel
Minette Bay
Kitimat Arm
Kildala Arm
Gardner Channel
Verney Passage
PRINCE RUPERT
KAIEN ISLAND
FERN PASSAGE
MORSE BASIN
WAINWRIGHT BASIN
RIDLEY ISLAND
PORPOISE HARBOUR
PORPOISE CHANNEL
INVERNESS PASSAGE

Figure 1b: Placenames for the northern half of the study area. Dogfish Banks and the City of Prince Rupert are shaded.

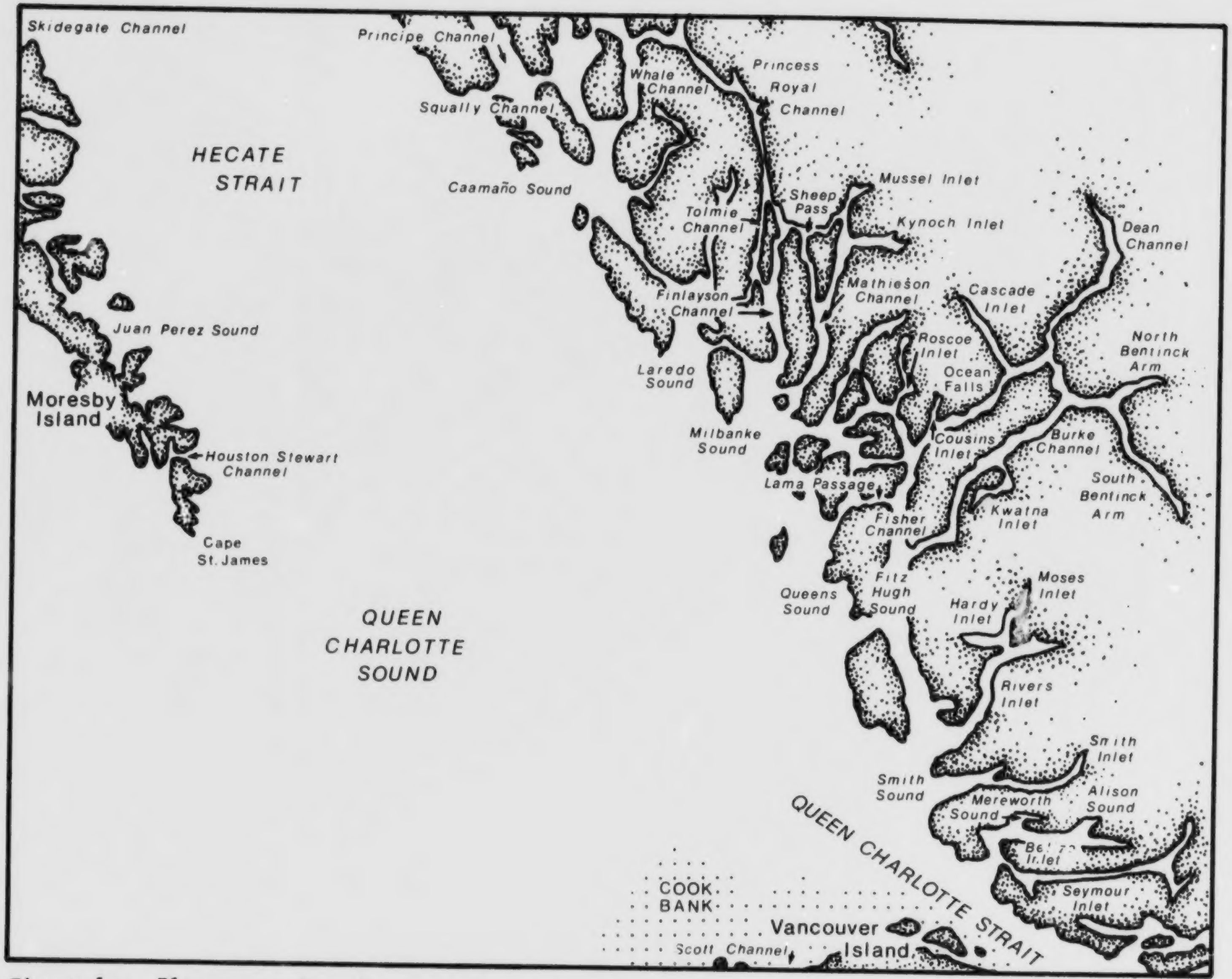

Skidegate Channel
HECATE STRAIT
Juan Perez Sound
Moresby Island
Houston Stewart Channel
Cape St. James
QUEEN CHARLOTTE SOUND
Principe Channel
Squally Channel
Caamaño Sound
Whale Channel
Princess Royal Channel
Tolmie Channel
Sheep Pass
Mussel Inlet
Kynoch Inlet
Dean Channel
Finlayson Channel
Laredo Sound
Mathieson Channel
Cascade Inlet
Roscoe Inlet
Ocean Falls
North Bentinck Arm
Milbanke Sound
Cousins Inlet
Burke Channel
Lama Passage
South Bentinck Arm
Fisher Channel
Kwatna Inlet
Queens Sound
Fitz Hugh Sound
Hardy Inlet
Moses Inlet
Rivers Inlet
Smith Inlet
Smith Sound
Mereworth Sound
Alison Sound
Inlet
Seymour Inlet
QUEEN CHARLOTTE STRAIT
COOK BANK
Vancouver Island
Scott Channel

Figure 1c: Placenames for the southern half of the study area. Cook Bank is shaded.

3. HISTORICAL DATA

The early oceanographic data consist mainly of water-level measurements. These data commenced in 1903 with measurements near Prince Rupert.

In 1934, a program was begun which involved the collection of surface temperature and salinity data at shore stations, mainly at lightstations maintained by the Ministry of Transport (MOT) or its organizational equivalent. Since then, fourteen stations have been operated in this area for varying periods of time (Section 3.1).

The first oceanographic survey was made in 1934. The program was conducted by the University of Washington and consisted of several hydrographic stations in Dixon Entrance. In the late 1930's, the Pacific Biological Station (PBS) at Nanaimo began cruises in this area, followed by the Institute of Oceanography at the University of British Columbia (IOUBC) in the early 1950's (Figure 2).

The Pacific Oceanographic Group (Nanaimo) and IOUBC dominated the oceanographic activity until the late 1970's when the Institute of Ocean Sciences at Patricia Bay (IOS) was established. Since then, IOS has been largely responsible for oceanographic data collection on the west coast. Independent consulting firms also began conducting oceanographic surveys in the late 1970's. Consultants have carried out studies for both government agencies and commercial companies.

3.1 SURFACE TEMPERATURE AND SALINITY FROM SHORE-STATIONS

Daily observations of sea-surface temperature and/or salinity have been made at various west coast locations since 1934. The stations in this study area are summarized in Table 1 and plotted in Figure 3. All are lightstations presently operated by the Canadian Coast Guard except Cape St. James, which is a meteorological station operated by the Atmospheric Environment Service (AES). The data have been published in various government reports (eg: Hollister and Sandnes, 1972; Wickett and Ballantyne, 1978; Giovando, 1983a, b).

Normally, observations are made within an hour of daytime high tide. Temperature and salinity are measured near surface, approximately at 1 m depth. The water sample for salinity determination is collected using either a bucket or a sampling bottle. The temperature is obtained by "immediate" immersion of a thermometer into the water thus collected.

Following are the estimated accuracies of the various methods used to determine temperature and salinity.

A. Temperature

1.	1934-1936	Mercury thermometer	±0.5°F, ±0.28°C
2.	1937-1939	Red-liquid thermometer	±0.5°F, ±0.28°C
3.	1940-present	Mercury thermometer	±0.3°F, ±0.11°C

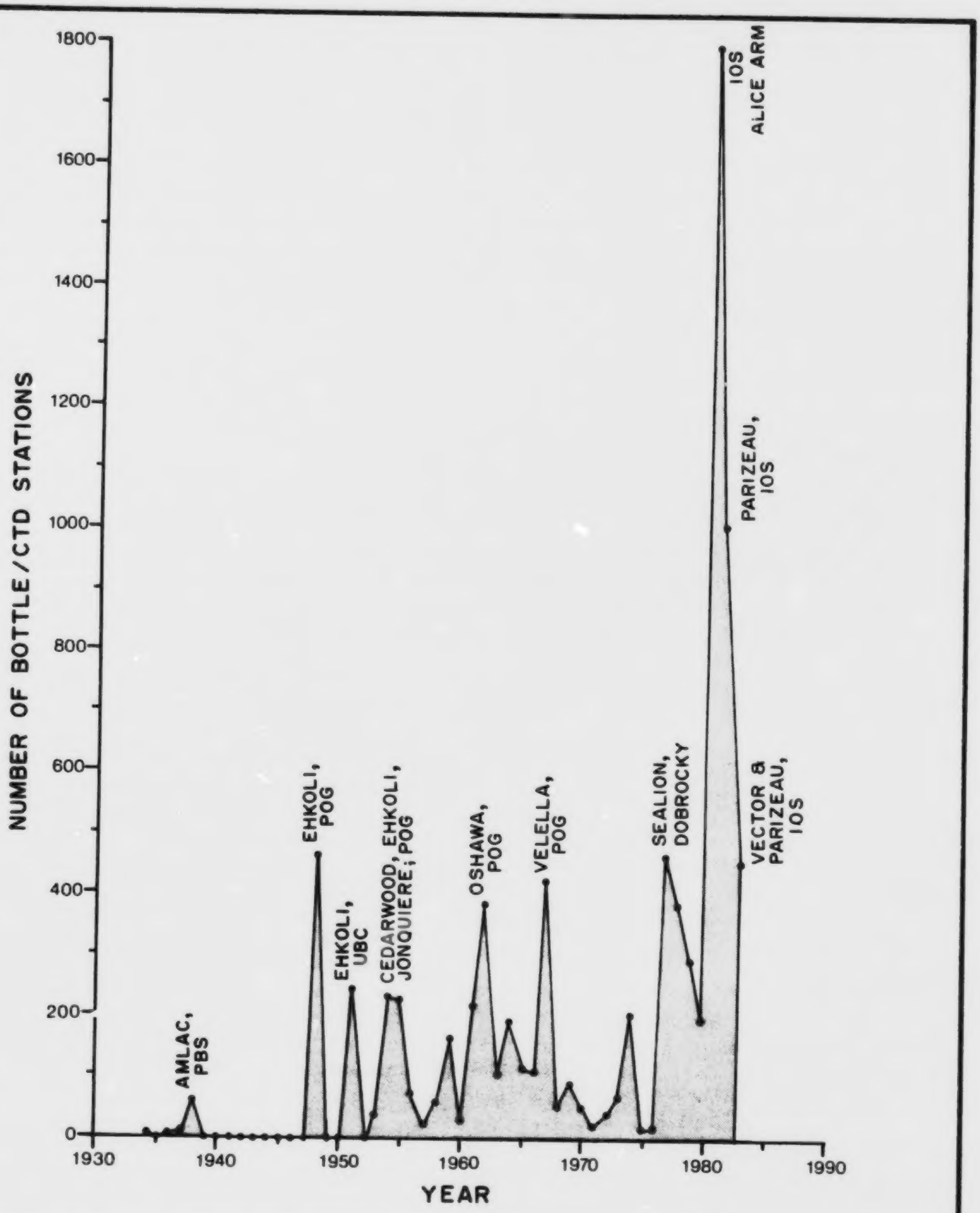


Figure 2: Level of oceanographic effort, based on number of bottle-CTD stations per year (vessel, agency).

TABLE 1: B.C. SHORE-STATIONS - SURFACE TEMPERATURE AND SALINITY

Station	Data Set I.D.	Latitude	Longitude	Period of Operation	Date of Conversion from Salinometer to Hydrometer
Langara Island	36-0004	54°15.3'	133°3.5'	Oct. 22/36-Aug. 28/37	
	40-0004	54°15.3'	133°3.5'	Mar. 02/40-present	Sep. 23/69
Green Island	35-0004	54°34'	130°42'	Feb. 01/35-Sep. 14/36	
Prince Rupert	40-0005	54°19'	130°18'	Jan. 02/40-Jun. 11/42	
Triple Island	39-0001	54°17.6'	130°52.7'	Nov. 01/39-Dec. 16/70	Dec. 01/69
Masset	40-0006	54°1'	132°9'	Jan. 01/40-Oct. 31/42	
Port Clements	41-0002	53°41'	132°11'	Oct. 01/41-Aug. 31/42	
Shannon Bay	40-0007	53°39'	132°30'	Jan. 01/40-Aug. 31/41	
Sandspit	53-0018	53°15'	131°49'	Aug. 01/53-Dec. 20/56	
Bonilla Island	60-0018	53°29.7'	130°38'	Apr. 07/60-present	Jan. 01/70
McInnes Island	54-0018	52°15.8'	128°43.2'	Jul. 23/54-present	Nov. 01/69
Ivory Island	37-0008	52°16'	128°24'	Jul. 27/37-Dec. 31/55	
Cape St. James	34-0002	51°56.3'	131°0.8'	Jul. 27/34-present[1]	Jan. 01/71
Egg Island	70-0033	51°15.1'	127°49.9'	Mar. 10/70-present	Jul. 01/71
Pine Island	37-0009	50°58'	127°44'	Jan. 14/37-present	Dec. 01/69

[1] Temperature readings for Jan. 1939-Dec. 1942 considered unreliable. Salinity observations were terminated May 31, 1971.

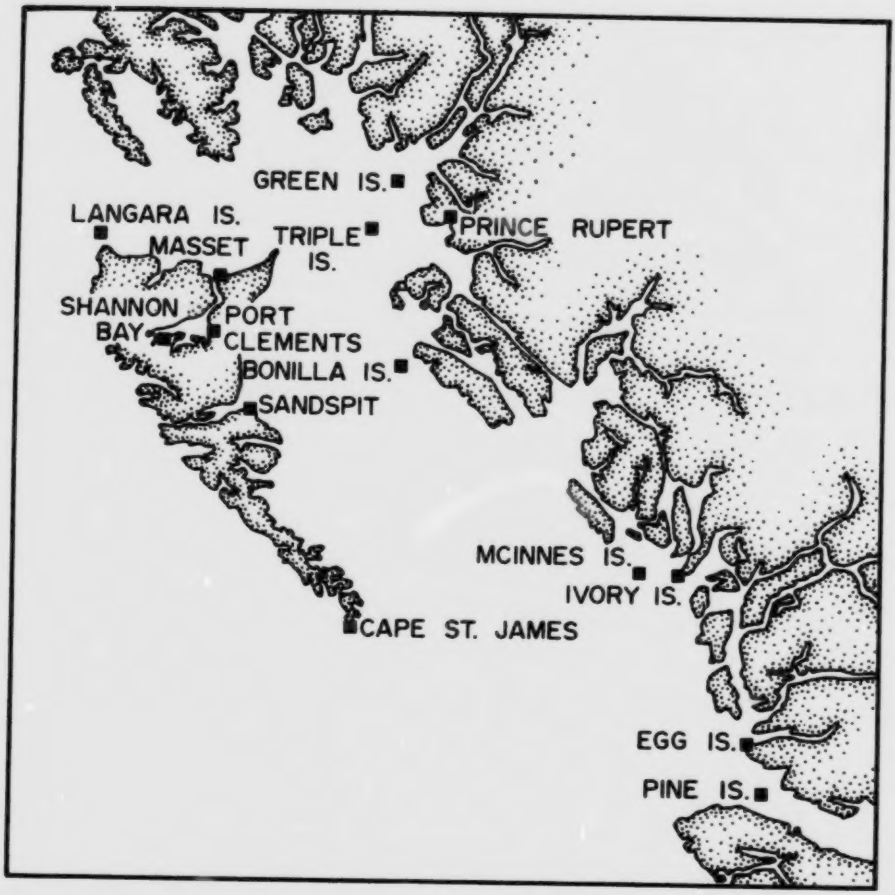

GREEN IS.
LANGARA IS.
TRIPLE IS.
PRINCE RUPERT
MASSET
SHANNON BAY
PORT CLEMENTS
BONILLA IS.
SANDSPIT
MCINNES IS.
IVORY IS.
CAPE ST. JAMES
EGG IS.
PINE IS.

Figure 3: Shore-station locations.

B. Salinity

1.	1934-1958	Titration	±0.06°/oo
2.	1959-1969 (approx.)	Conductivity salinometer	±0.02°/oo
3.	Approx. 1969-present	Hydrometer	±0.3°/oo

The actual dates of conversion from salinometer to hydrometer are given in Table 1.

4. GENERAL REPORT LAYOUT AND USER INSTRUCTIONS

4.1 DATA SETS

The data are organized in sets, where each set consists of data of a common type taken on a single expedition or cruise[1], usually by a single institution or organization. Thus, unless otherwise noted, all the data within a single set is assumed to have been collected in a uniform manner and should conform to a common standard of measurement.

Each data set has been assigned an identification number of the form yy-nnnn, where yy = last 2 digits of the year in which data were collected and nnnn = order of identification for that particular data set for that year. The data set number is a unique identifier which applies throughout the entire series of inventories; any set identified, for example, as 72-0009 is the same data set no matter where reference to it is made. Gaps may appear in the sequence of data set numbers in this inventory for a particular year, because each data set will not appear in every discipline and geographical area.

4.2 INVENTORY ORGANIZATION

Table 2 (Section 8) lists all the data sets in the inventory in order of data-set number. It provides a summary description of each set including the times, areas and methods of measurements. Table 2 also gives a listing of concurrent measurements from other disciplines.

Geographical and measurement type indexes are in Section 10. The sub-areas in the geographic index are shown on the map in Figure 21. Section 10 also contains an index of references, ordered by data set number. It is primarily an index of original data reports, although ancillary papers analyzing or discussing the data are listed if they came to our attention.

Measurement locations are plotted in a series of maps in Section 9. Six different maps, all in Lambert Conformal Conic projection, have been used to plot stations. In most cases, the overall map of the entire study area is used, along with one or more of the larger-scale maps. The coastlines have been smoothed, and small islands removed, to avoid clutter. Map specifications and a key to the symbols on the maps are presented at the beginning of Section 9.

---

[1] In some cases, where similar sampling techniques were used, several cruises have been grouped into one data set. This was done prior to the commencement of this study. In these cases, letter suffixes have been used to differentiate different cruises.

Detailed listings of the times and locations of individual measurements are in Section 11. There is a separate listing for each data type. The format of the listings is explained at the beginning of Section 11.

Data sets were rated according to the criteria in Section 5. The ratings are listed in Table 2. Appendix 1 contains comments explaining the reasons for low ratings, a list of any errors found in each data set, and any other pertinent remarks concerning the data. The comments are ordered by data-set number.

Section 6 contains a general description of the extent of the data available in this area. Sections 6.1 and 6.2 describe their geographical seasonal distribution. Section 6.3 tabulates instances of repeated measurements in the same area, and instances where measurements were carried out simultaneously, in different areas, or by different agencies.

4.3 SAMPLE USE OF THE INVENTORY

A typical use of the inventory might be as follows:

1. Examine the maps in Section 9 for measurements during the year(s) of interest, and note the data-set numbers of interest.
2. Refer to Table 2 to find the range of measurement dates, measurement methods, accuracies and data sources.
3. If more specific information is required concerning the timing or location of individual measurements in the set, refer to Section 11.
4. Consult the reference index in Section 10 for works referring to or using the data.

5. DATA RATING AND APPRAISAL

5.1 TYPES OF DATA

5.1.1 BOTTLE CAST DATA

These data consist of temperature and salinity measurements at discrete depths (ideally the international standard depths) obtained by means of reversing thermometers and sampling bottles. Temperature accuracies of ±0.01°C may be achieved by averaging two or more carefully read, well-calibrated thermometers. Some investigators have used hydrometers (±0.2°/oo) and refractometers (±0.5°/oo) for the determination of salinity, but up to 1960 salinity was usually obtained by titrating water samples drawn from the bottles; replicate titrations in the hands of a good operator could yield results precise to ±0.01°/oo. In the 1960's, salinometers measuring salinity via the conductivity of the sample replaced titrations. A precision of ±0.003°/oo can be obtained with the better instruments, although in the past, systematic errors of ±0.02°/oo or more could be introduced by variations in the standard water used to calibrate the instruments. New international standards for salinity should eliminate the latter source of error (Lewis and Perkin, 1978).

5.1.2 CTD DATA

CTD data are data produced by in-situ profiling instruments variously called STD (salinity-temperature-depth), STP (salinity-temperature-pressure), CTD (conductivity-temperature-depth) or CTP (conductivity-temperature-pressure) profilers. Fundamentally, all are CTP devices; the variations in output and name depend solely upon the degree of internal data processing. All instruments perform the same basic function of measuring (more or less continuously) temperature and conductivity as a function of depth. The precision achievable with such devices depends upon the individual instrument. The best are capable of a precision of ±0.005°C and ±0.005°/oo, although accuracy in salinity, until recently, was limited to approximately ±0.02°/oo because of the inconsistencies in salinity standards and definitions (Walker and Chapman, 1973).

5.1.3 BATHYTHERMOGRAPH

The bathythermograph (BT) is a thermo-mechanical device which measures water temperature as a function of pressure. Its information is recorded as a trace, on a smoked-glass or gold-coated slide, which can be read to an accuracy of ±0.2°C and ±2 m depth if the instrument is well calibrated. The BT was widely used in conjunction with bottle casts but has largely been superseded by the CTD. XBT's are the expendable variety. BT data have not generally been compiled, unless they were accompanied by other physical oceanographic measurements. The Pacific Biological Station (PBS), Nanaimo, collected large amounts of BT data beginning in the 1950's and most of these data are on file with the Marine Environmental Data Services Branch of the Department of Fisheries and Oceans (MEDS). The 1977-1981 BT data are published in Dodimead et al. (1979a, b) and Dodimead and Ballantyne (1980, 1984).

5.1.4 SELF-RECORDING CURRENT METERS

By the 1970's oceanographers could practically and reliably place and recover self-recording current meters in the water column. Meters of this type generally record internally on magnetic tape (in some models photographic film or paper charts are used), or telemeter data to a ship or to a shore receiving station. They generally provide time series of current speed and direction, and may have other sensors (for measuring temperature, pressure or conductivity) mounted as well. Current speed and direction are usually measured by one of two methods: either by a propeller or rotor for measuring speed and a vane for direction sensing, or by a measurement of two orthogonal components of the current speed. Component speeds may be measured by propellers, or by electromagnetic or acoustic speed sensors. Directional reference is usually provided by a magnetic compass. Commonly used instruments employing the propeller and vane system are the Aanderaa, Hydroproducts, Endeco and AMF (vector-averaging) current meters; those employing the component-measuring system are the Cushing and Marsh-McBirney instruments (electromagnetic), the Neil Brown (acoustic), and the Davis-Weller (orthogonal-propeller) instruments.

The precision and accuracy of current meters depend to a great degree both on the design of the instrument, and on the environment in which it is used. Serious problems may be encountered if rotor-type meters are used in the wave zone. Calibration drift and sensor fouling can interfere with satisfactory operation of electromagnetic and acoustic sensors. The sampling frequency and integration period selected for the meter can also affect the accuracy of the record.

5.1.5 PROFILING CURRENT METERS

These current meters provide a series of point measurements of current speed and direction at several depths throughout the water column. Meters used for this purpose are generally of the propeller or rotor and vane design, the oldest common example being the Ekman-Merz meter. Measurements usually are taken from an anchored ship in shallow water. In water too deep for anchoring, a very good positioning system is required to correct for ship movements. Unless repeated profiles were taken so as to form a time series, this type of data was not generally catalogued. Recently Cyclesondes have been used for profiling. This instrument can be fitted to measure currents as well as other parameters, and oscillates vertically up and down a tether, unattended.

5.1.6 CURRENT DRAGS

This method of current determination was employed primarily in the 1950's and early 1960's. A tethered drogue was allowed to drift away from the anchored vessel. The time for a measured length of line to pay out provided a measure of current speed. The direction of flow was estimated from the course of the drogue. The drogues were typically crossed metal vanes, having slight positive buoyancy. Accuracy of speed and direction were seldom discussed. It is believed that speed measurements should be accurate to ±5 cm/s or better. The accuracy of the direction measurement would vary depending on what method was used. For example, a compass reading should provide a reading to ±5° or so, whereas an estimate based on land features and chart would generally not be this accurate.

5.1.7 RADAR OR AIRCRAFT-TRACKED DRIFTERS

This type of drifter usually consists of a float (with or without a drogue) and a radar reflector or visual marker. These devices can be tracked visually or by radar from shore or from a ship or aircraft. The accuracies achievable depend upon the tracking system used, and can be very good if a sophisticated system is available. Data of this type are often limited in their coverage in space and time, and may have gaps resulting from bad weather.

5.1.8 SATELLITE-TRACKED DRIFTERS

Satellite-tracked drifters are a comparatively recent invention, dating from the early 1970's. Widespread use of these devices began after the launch of the Nimbus VI satellite carrying the Random Access Measurement System (RAMS) in 1975. In early 1979, the TIROS-N satellite was launched activating Service ARGOS which is now used to track all such devices.

Both RAMS and System ARGOS compute position from the Doppler shift of a signal transmitted from the buoy to the satellite. On each pass of the satellite the position (and any other data being measured) is received and sent to a ground facility where the data are processed. Both the RAMS and ARGOS systems produce positional accuracies of approximately ±2 km.

Recently it has become possible to use the LORAN-C system to track drifters (data set 84-0006).

5.1.9 WATER LEVEL GAUGES

Water-level data are produced mainly by visual observation of tide staffs, by mechanical shore-mounted float-type gauges, or by bottom-mounted pressure gauges. Some early data consist only of observations of the times of high and low water levels. The pressure gauges may be self-contained, or they may consist of a pressure sensor connected to a shore-mounted recording device. The mechanical gauges record by means of a pen on chart paper. The data are usually digitized at hourly intervals, resulting in a record with a resolution of approximately ±1 cm, and an accuracy of the order of ±5 to 10 cm. The resolution of the bottom-pressure gauges varies from a millimetre to a centimetre, depending upon the instrument type and range. Sampling intervals generally vary between 5 and 60 minutes. Bottom pressure gauges generally record total pressure, atmospheric plus hydrostatic. In order to extract the water level fluctuations due to changing atmospheric pressure (i.e. the inverted barometer effect), the atmospheric pressure must also be recorded. The Canadian Hydrographic Service (CHS) has collected most of the water-level data; such information was first recorded in 1903. The four-digit station identities used by CHS have been cross-referenced with the common name and the data set ID number in Table 3 of Section 11.3

5.1.10 WAVE RECORDERS

There are three basic types of wave-measuring devices for measurement from a single point:

a) Surface-piercing instruments. These are fixed relative to the water level and measure surface motion using various methods such as the change in capacitance of a vertical wire.

b) Pressure-measuring devices. Ocean waves produce measurable pressure fluctuations beneath them which, under proper conditions, can be related to wave height.

c) Instruments which measure the vertical acceleration of the water surface. When integrated twice in time, the vertical acceleration yields sea-surface elevation relative to the mean.

In shallow water, types a) and b) are generally used, whereas type c) is more suited to deeper waters. Generally, Waverider accelerometer-type buoys have been used in most studies off the Canadian west coast.

5.2 DATA RATING SCALE

5.2.1 RATING CRITERIA

The data appraisal in this inventory is intended to provide the reader with an indication of the quality of each data set and its suitability for comparison with other data sets. The appraisal was based primarily on documentation describing the methods used in collecting and processing the data and the investigator's estimate of their precision, accuracy and utility. Subsequent analyses of the data were also taken into account, e.g. if errors were found in a particular data set during a subsequent analysis, and the results were published, these results were used in the assessment. Note that a thorough appraisal, requiring investigation of the data and comparisons with other data sets, is beyond the scope of this report.

The information from the sources above was used to assign a numerical rating to each set. The rating system has five levels, defined as follows:

0: Data are found to be wrong.

1: Data are suspect because of ill-defined doubts.

2: Data quality could not be determined due to insufficient support documentation.

3: Data are internally consistent - patterns or trends within the data themselves are probably real, but comparison with other data sets may pose problems.

4: Data are internally consistent and exhibit sufficient standardization that comparison with other 4-rated data should be possible.

5.2.2 ASSIGNMENT OF RATINGS

0 RATING

A data set received a 0 rating if serious deficiencies in technique, or significant systematic errors, occurred. A 0 rating was also assigned if the documentation of the data set lacked essential information (e.g. the positions and times of measurements) which no longer exists.[2]

1 RATING

A data set received a 1 rating if, either as part of a data report or in subsequent analysis and examination, the original or other investigators questioned the validity of the data without pinpointing specific errors. In general, a 1 rating was assigned if a data set exhibited an atypical distribution of values, or indicated unlikely physical processes, but contained no obvious errors. Such data sets require careful examination before use.

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[2] Note that this definition of this number has been modified from that used in Volumes 1, 3 and 5 of the Arctic Data Compilation and Appraisal Series, in order to emphasize that data sets assigned a 0 rating are either wrong or of very limited value due to lack of documentation.

2 RATING

Ratings of 2 were given to data sets for which it was not possible to carry out an appraisal. Such cases include:

(i) Proprietary data, whose existence is known, but about which no details are available.

(ii) Data sets for which we were unable to obtain documentation but know that data were collected.

3 RATING

Data received a 3 rating if they were internally consistent within the precision of the methods used to collect the data. Precision refers to the degree of random fluctuation experienced when a measurement is repeated many times, while accuracy is the departure of the measurement (or the mean of a series made under controlled conditions) from the true value. Because oceanographic data are normally taken without replication and under uncontrolled conditions, data taken with instruments of a certain precision will have the same (or poorer) level of accuracy. An exception is the case of a series of temperature-salinity measurements taken within a water body of stable, well-defined characteristics, in which case the mean of the series could provide a measurement more accurate than the precision.

Ratings of 3 were given to all data sets for which no evidence of errors beyond the precision given in Table 2 was found, but which did not satisfy each of the criteria required for a rating of 4 (see below). This is based on data reports and other publications; the actual data were not checked further by these authors. In some instances, the instrument and/or precision and accuracy were unknown, but the collecting agency used standardized methods; these data sets were generally awarded a 3 rating when there was no evidence suggesting deficiencies in the data.

Caution should be exercised when comparing two sets of 3-rated data, as their levels of precision may be quite different. The reader should consult both Table 2 and Appendix 1 for precision and error information.

4 RATING

Data received a rating of 4 if: they were measured to the precision available with modern methods described in Section 5.1; they had no evidence of systematic or other errors recorded in the documentation; and they were obtained using measurement instrumentation, methodology and techniques which provide data that can be related to national or international standards.

Since standards tend to change, ratings of 4 were only grudgingly awarded. In many cases, ratings of 3 were assigned because of lack of time and/or sufficient documentation to be certain that a rating of 4 was warranted. Some of these ratings may merit an increase to 4 after further study of the data has been made.

Of all the physical oceanographic data that were inventoried, the bulk of the data is temperature/salinity measurements. Until the early 1960's, water samples were collected by bottle cast and salinities were determined by titration. During most of the 1960's, salinities were generally determined using conductivity bridges. From the late 1960's on, instruments which measured conductivity and temperature in situ (CTDs) became the standard. Salinity was then computed from the temperature and conductivity values.

CTDs with increased resolution have revealed gradations in salinity where previous chemical analyses indicated homogeneous water. Since both bottle and CTD data may have ratings of 3, caution must be used in any comparison.

Salinity determination depends on a standard. In the past this was 35°/oo Copenhagen water. However, variability in the standard and in the calibration of the instrumentation often resulted in systematic errors of 0.02°/oo or more.

A new, practical salinity scale has recently been adopted (Lewis and Perkin, 1978). A conductivity ratio is measured (the conductivity of the unknown to that of a standard laboratory-produced sample). Waters of the same conductivity ratio at a given temperature and pressure are then defined to have the same salinity. This reduces systematic errors in salinity. However, most of the historical data remains subject to a ±0.02°/oo accuracy limitation.

Current-meter data were judged by the instrument characteristics, response, and the deployment methods. The main causes of low ratings are directional errors and contamination by mooring motion and wave-orbital velocities.

6. SUMMARY OF DATA COVERAGE

6.1 SPATIAL COVERAGE, INCLUDING DATA DISTRIBUTION MAPS

The locations of all measurements compiled to date are summarized for bottle/CTD (Figure 4), current-meter (Figure 5), water-level (Figure 6), and wave data (Figure 7).

The location maps of all temperature-salinity data have been split into pre-1970 (Figure 4a) and post-1970(Figure 4b). Prior to 1970, most temperature-salinity data were obtained using bottle casts. Standard depths at which data were collected were 0, 10, 20, 30, 50, 75, 100, 150, 200, 300, 400, 500, 600 m. Most of the post-1970 data were obtained using in-situ profiling instruments having vertical resolution on the order of centimetres. Temperature-salinity stations are most concentrated in Dixon Entrance, southern Queen Charlotte Sound, Cook Bank, and the major inlets. Hecate Strait and the nearshore and coastal channels adjoining Hecate Strait and Queen Charlotte Sound have not been as heavily sampled. Apparent in Figure 4 are lines of stations across Queen Charlotte Sound and Hecate Strait. These are lines traditionally occupied by oceanographic surveys.

Figure 5 shows the locations of all current measurements in this area. Such measurements include those obtained from both moored current meters and profiles, carried out from a vessel at anchor. The Douglas Channel system was well covered by the Dobrocky Seatech Ltd. study (77-0042), and Burke

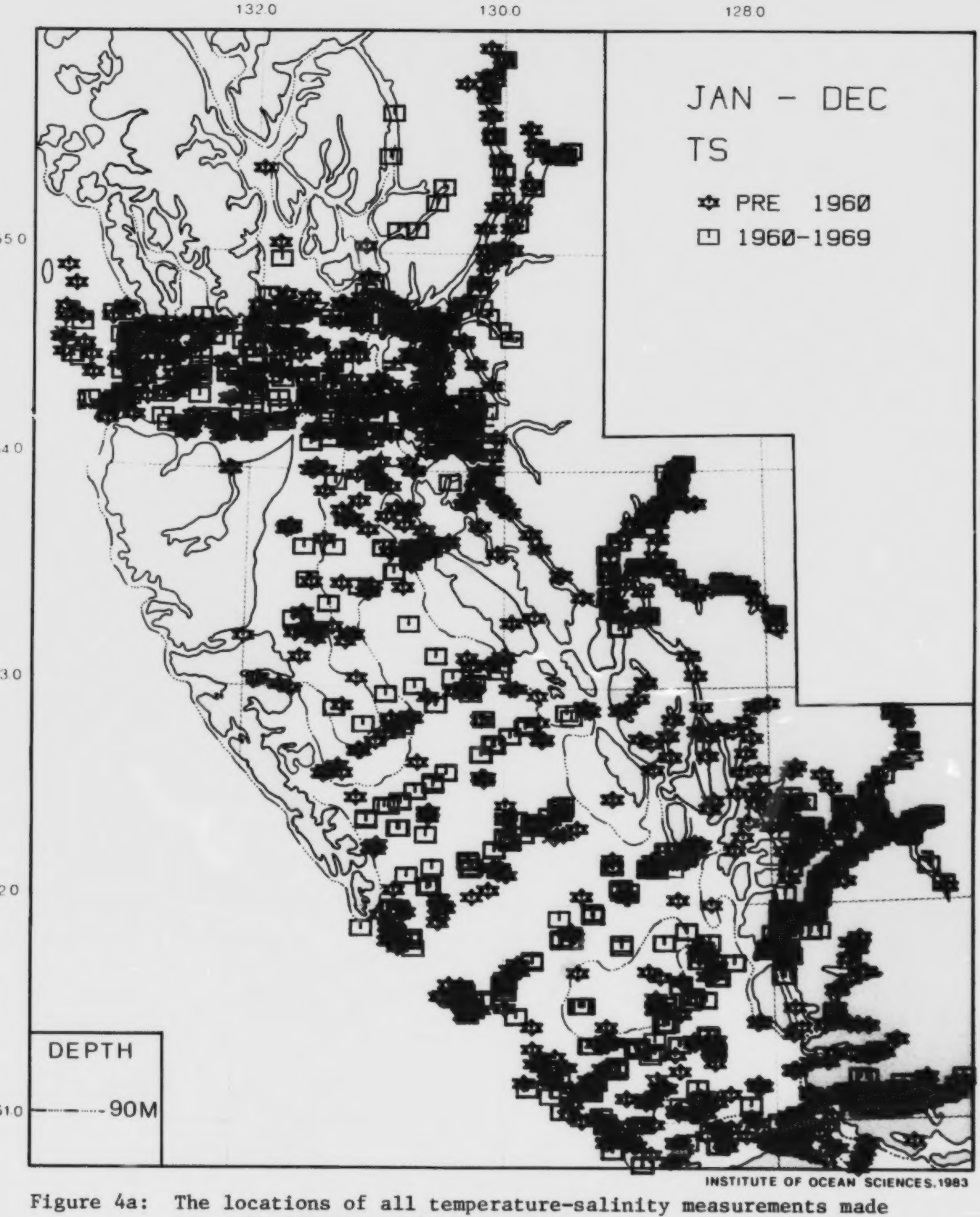

132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
JAN - DEC
TS
PRE 1960
1960-1969
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES.1983

Figure 4a: The locations of all temperature-salinity measurements made pre 1970 (approx. 3300 stations).

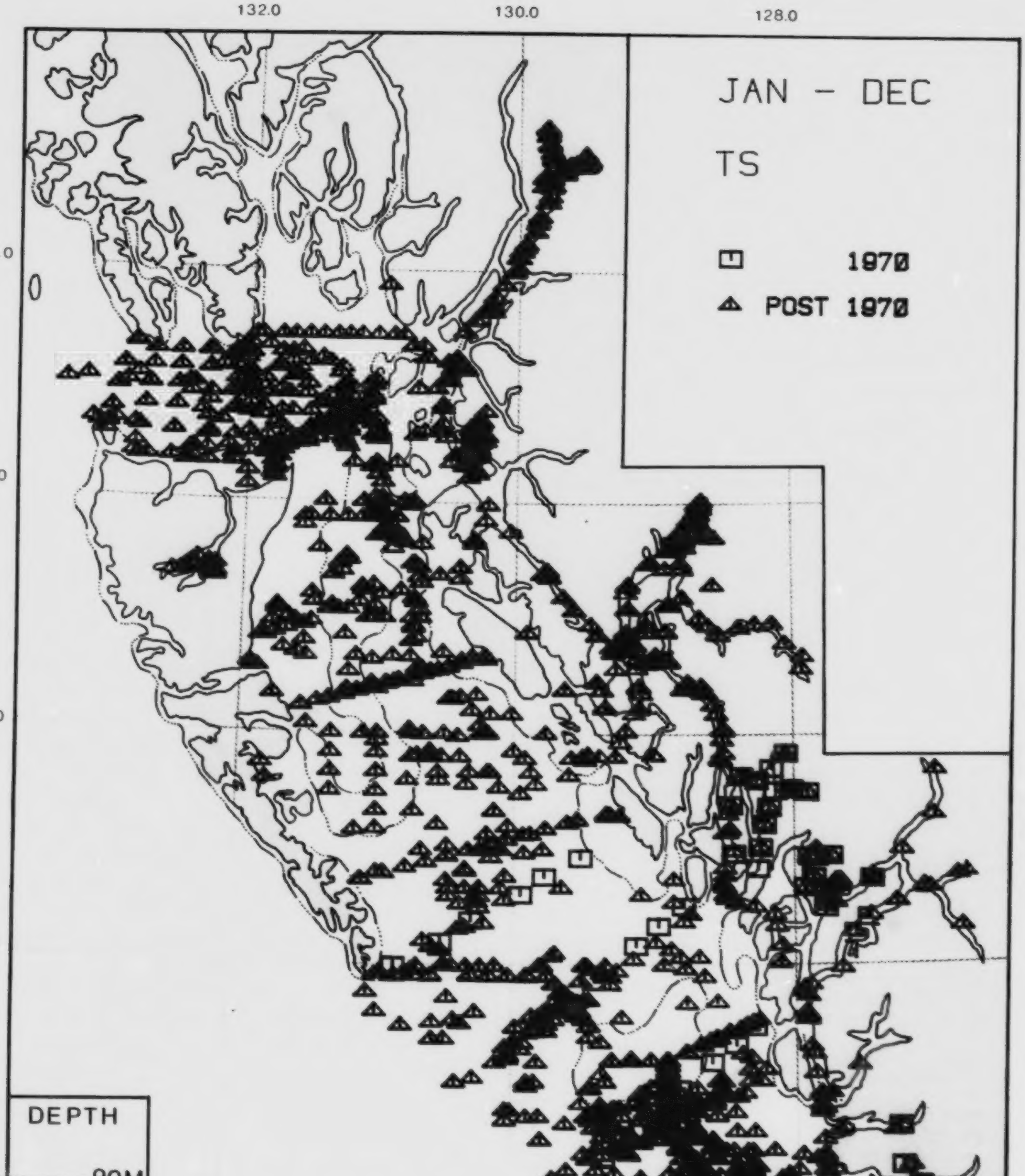

132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
JAN - DEC
TS
1970
POST 1970
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES.1983

Figure 4b: The locations of all temperature-salinity measurements made from 1970 through 1984 (approx. 5400 stations).

Channel/N. Bentinck Arm by the Pacific Oceanographic Group in 1967 (67-0023) using the barge Velella. More recently, current meters have been moored in Queen Charlotte Sound, Dixon Entrance, Alice Arm and Hecate Strait.

The geographical distribution of water-level stations is fairly uniform, although most are coastal or nearshore (Figure 6). Only recently have offshore water-level records been obtained.

Wave measurements have been made in Dixon Entrance, Hecate Strait, Queen Charlotte Sound, Observatory Inlet, and near Prince Rupert and Kitimat (Figure 7). The earlier (1968) data in Hecate Strait were obtained from drilling rigs, while the recent offshore data were obtained using Waverider or similar-type buoys.

6.2 SEASONAL COVERAGE, INCLUDING BI-MONTHLY MAPS

Bi-monthly station maps have been produced for temperature-salinity data (Figures 8-13), and for current and water-level data (Figures 14-19). In each figure the locations of available measurements are plotted according to the two-month period in which the data were obtained, beginning in January-February, and continuing through to November-December. In general, more data were collected during spring and summer, than in fall-winter.

Temperature/Salinity

The inlets and fjords have been sampled most heavily during the May-August period. The Kitimat and Observatory Inlet/Alice Arm systems have been covered thoroughly, with stations taken during each bi-monthly period. Offshore, most data have been obtained during April-October. The amount of data drops off during the winter, reaching a minimum during the November-December period. This is due to the stormy conditions often existing in these waters during winter.

Current

Similar to the T/S distribution, current data in the inlets are concentrated in the Burke Channel, Douglas Channel, and Observatory Inlet/Alice Arm systems. However, only Observatory Inlet/Alice Arm and Douglas Channel have been sampled in each bi-monthly period. Recent programs by IOS have resulted in current records year-round for Hecate Strait, and April-October records for Dixon Entrance.

Water-Level

The most obvious gap in water level coverage is winter data offshore in Queen Charlotte Sound and Hecate Strait. Coverage by more-easily maintained nearshore stations is generally widespread and year-round.

6.3 SYNOPTIC DATA SETS AND EXTENDED TIME SERIES

Synoptic Data Sets-Temperature/Salinity Data

In some years, the existence of two or more data sets collected at the same time provides a combined data set with near-synoptic coverage over a relatively large area. Data sets were considered near-synoptic if their

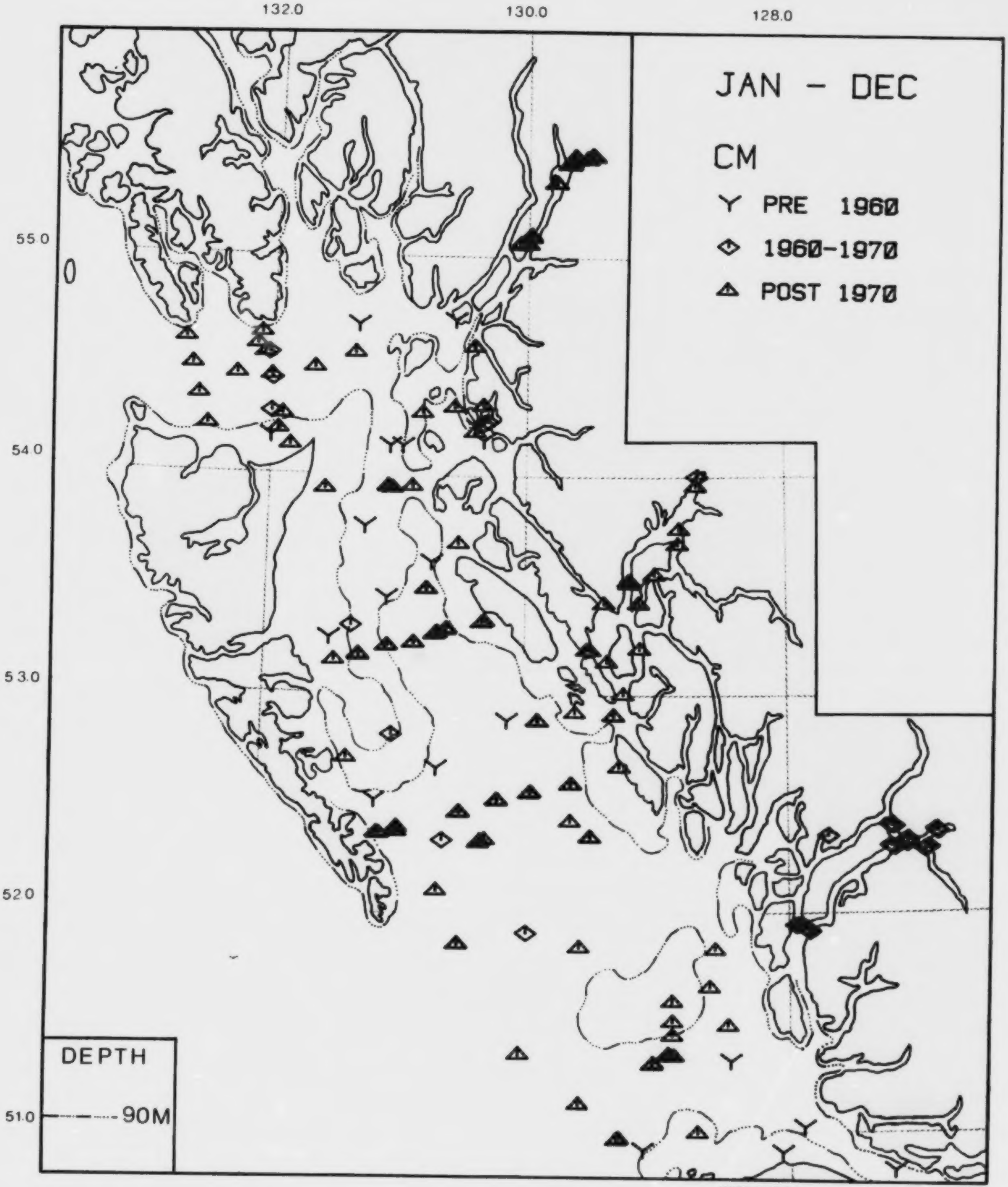
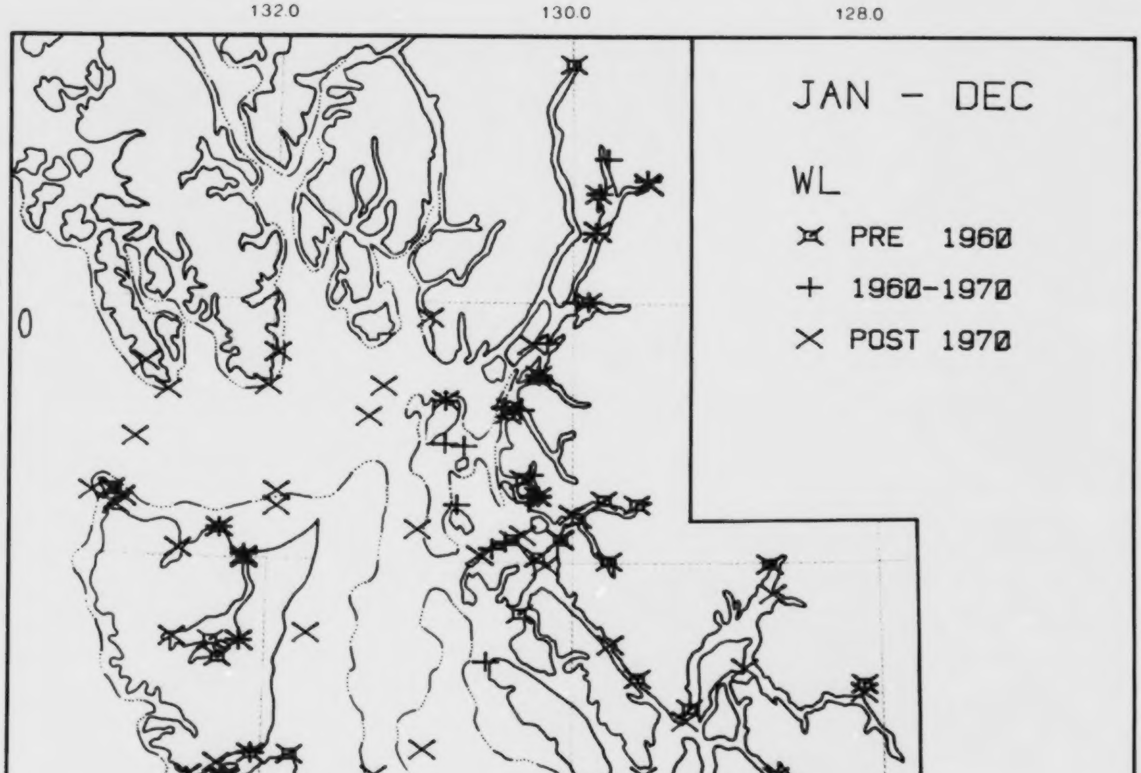
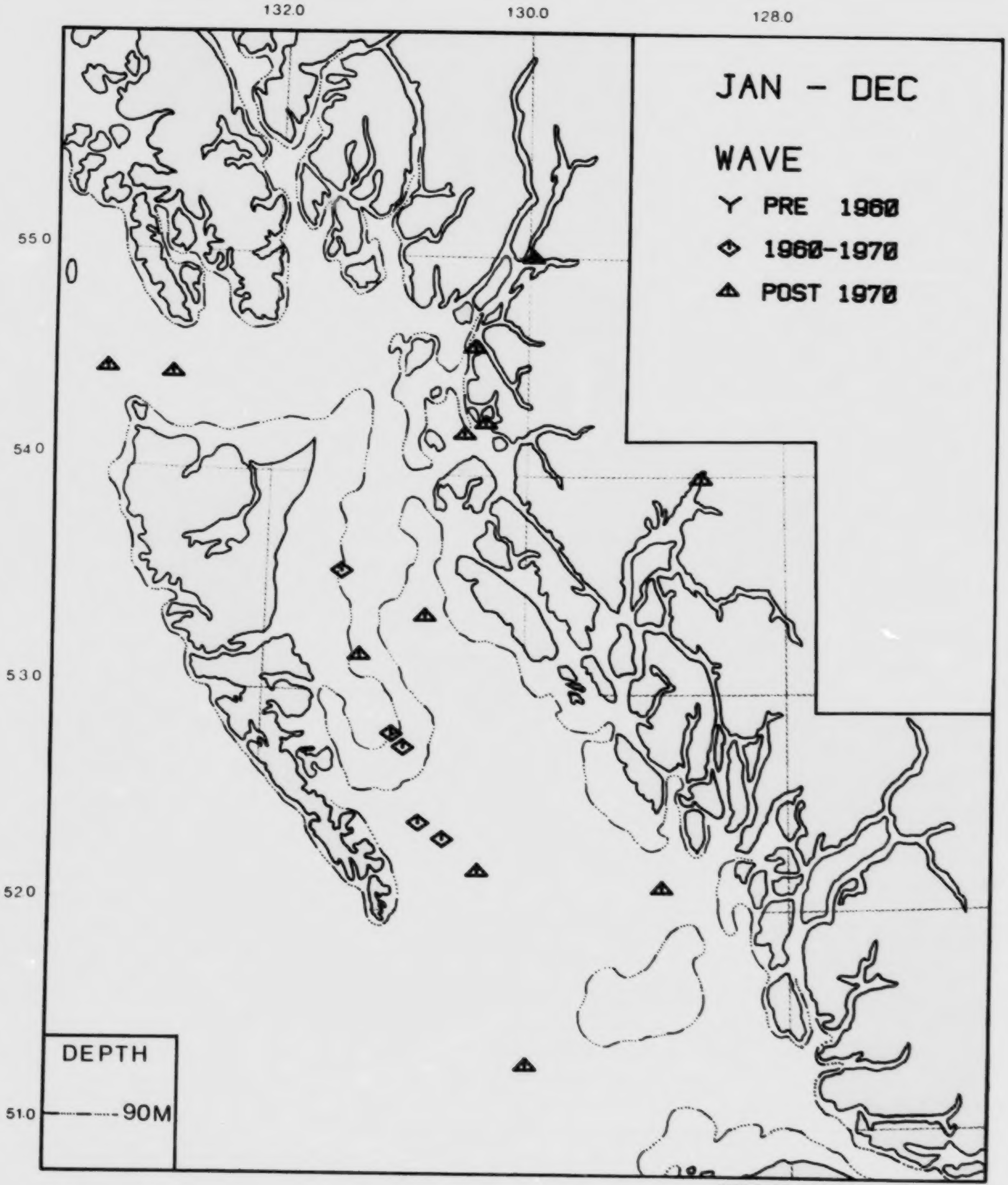

132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
JAN - DEC
CM
Y PRE 1960
◇ 1960-1970
△ POST 1970
DEPTH
-90M
INSTITUTE OF OCEAN SCIENCES.1983

Figure 5: The locations of all current-meter measurements (560 CM records).


132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
0
JAN - DEC
WL
PRE 1960
+ 1960-1970
× POST 1970
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983

Figure 6: The locations of all water-level measurements (220 stations).


132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
JAN - DEC
WAVE
Y PRE 1960
◇ 1960-1970
△ POST 1970
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983

Figure 7: The locations of all wave measurements (17 stations).

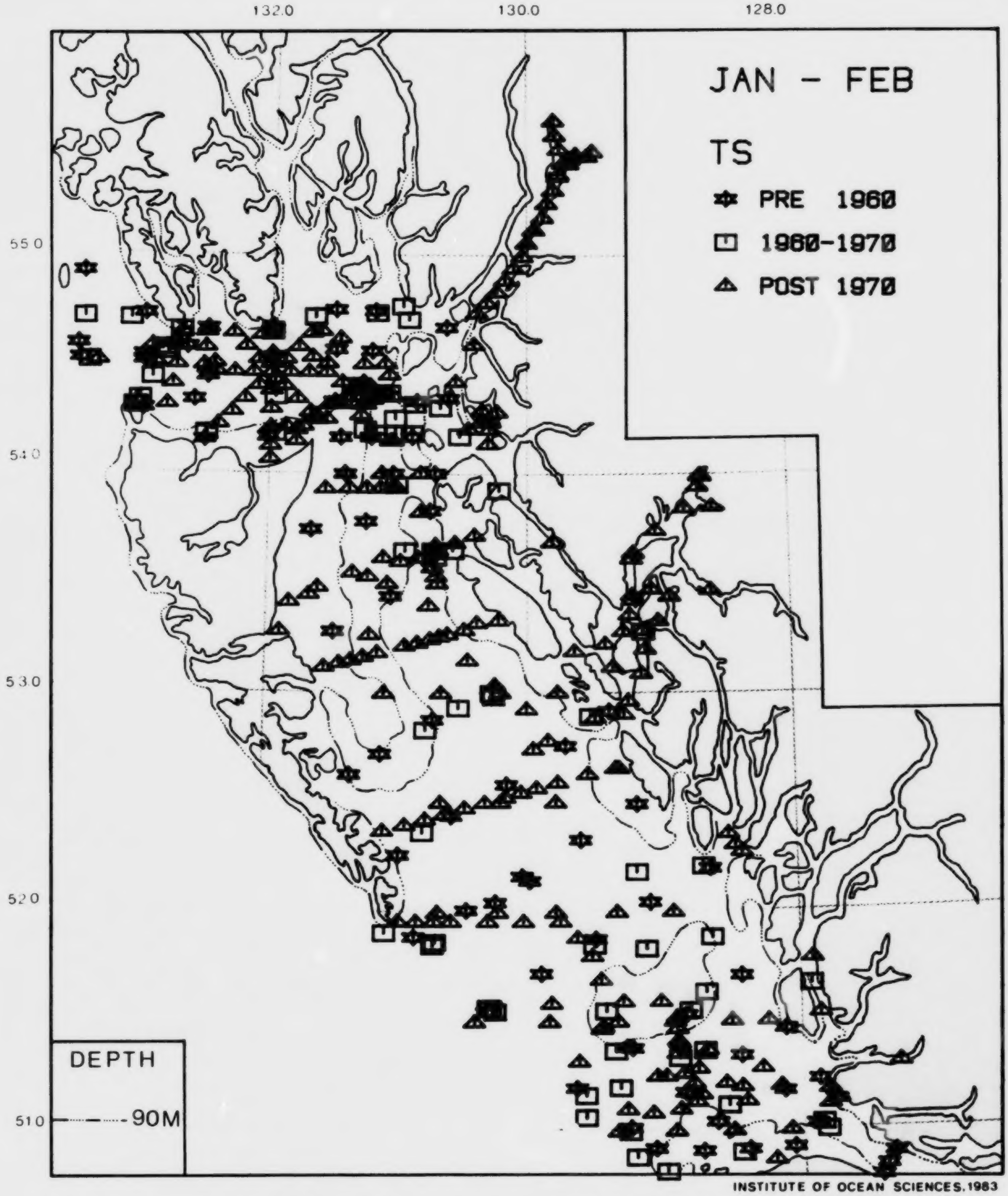

132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
JAN - FEB
TS
PRE 1960
1960-1970
POST 1970
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES.1983

Figure 8: The locations of temperature-salinity data collected during the January - February period, all years (503 stations).

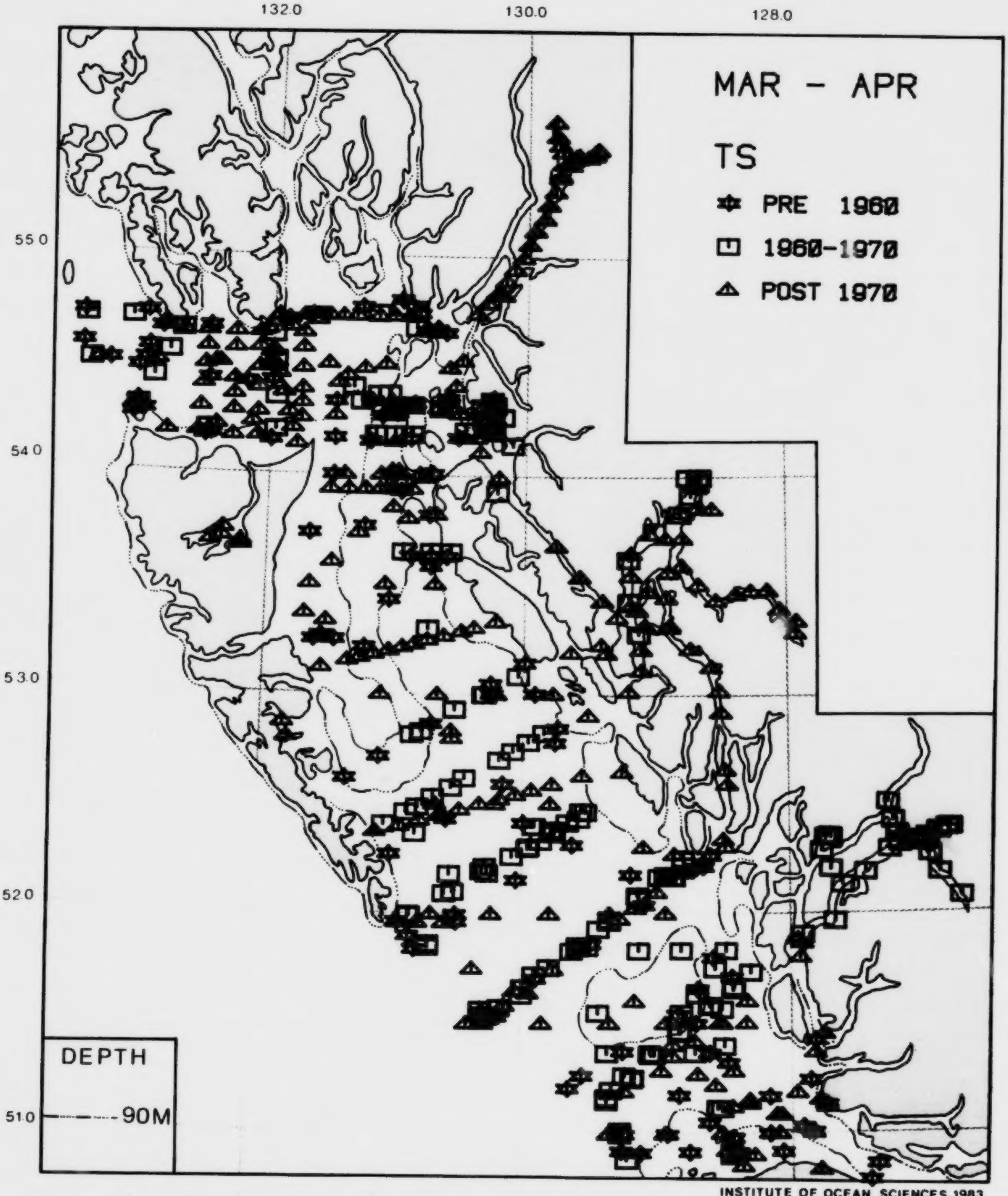

132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
MAR - APR
TS
PRE 1960
1960-1970
POST 1970
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES,1983

Figure 9: The locations of temperature-salinity data collected during the March - April period, all years (719 stations).

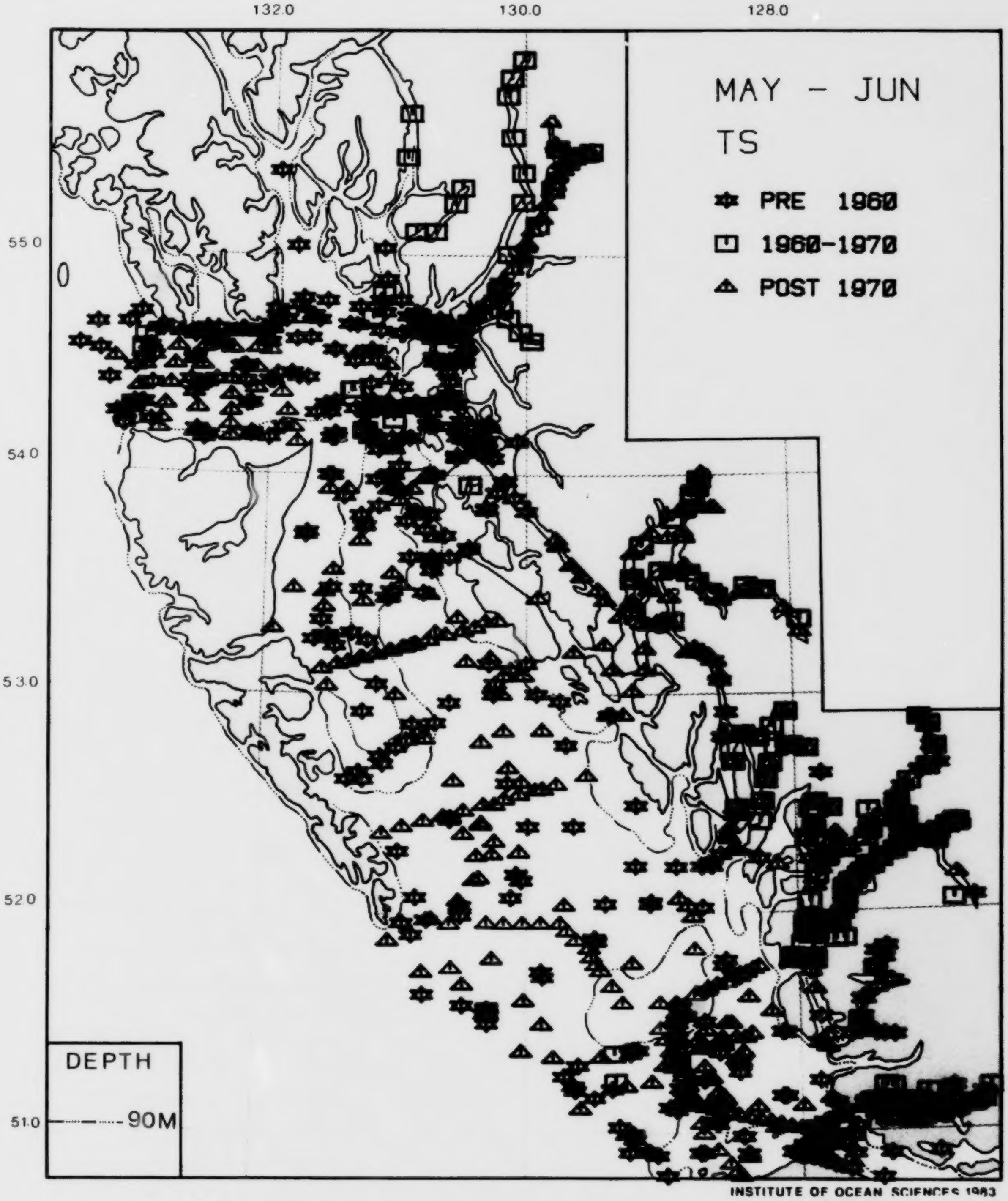

132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
MAY - JUN
TS
PRE 1960
1960-1970
POST 1970
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES 1983

Figure 10: The locations of temperature-salinity data collected during the May - June period, all years.

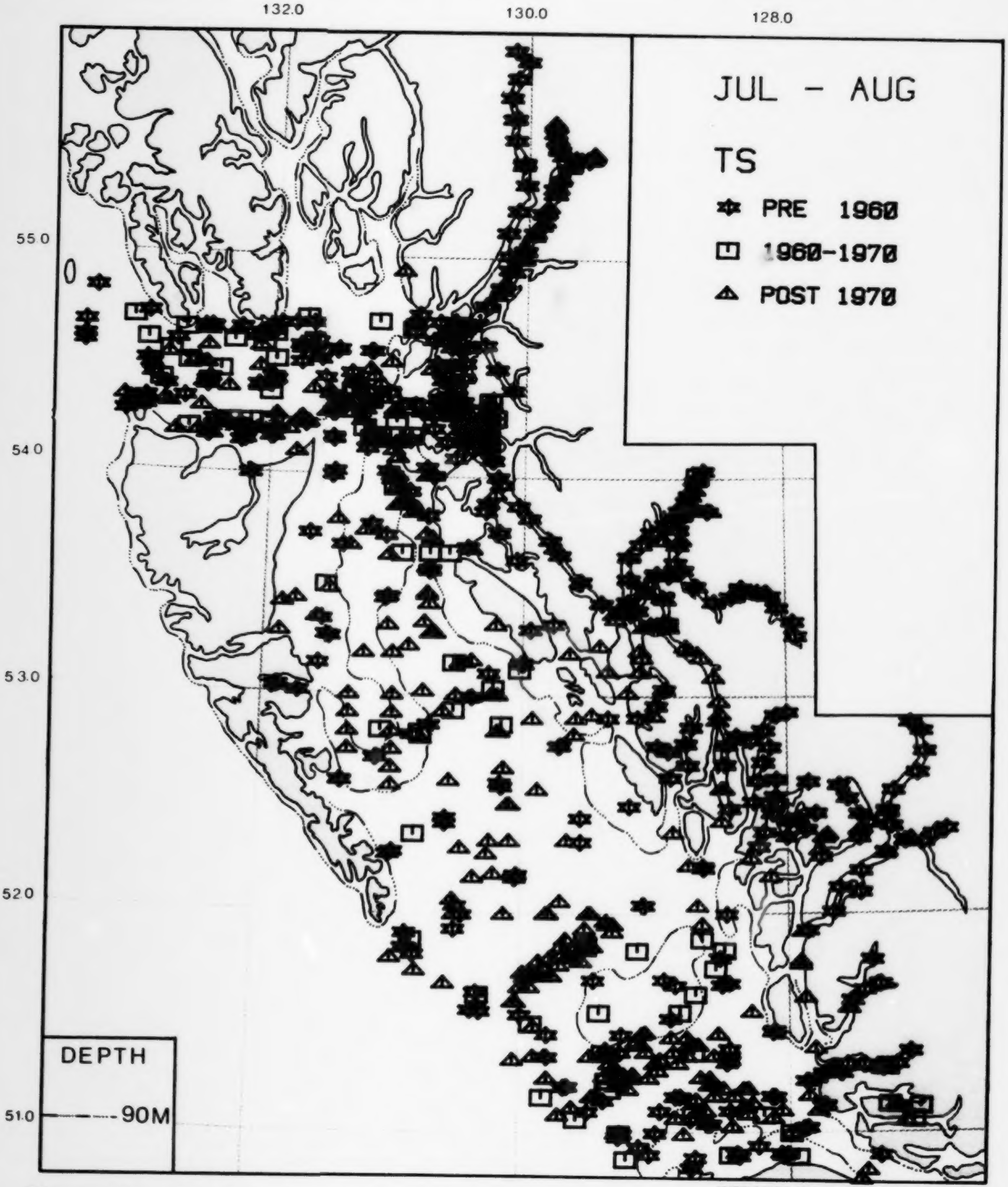

132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
JUL - AUG
TS
PRE 1960
1960-1970
POST 1970
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES, 1983

Figure 11: The locations of temperature-salinity data collected during the July - August period, all years (945 stations).

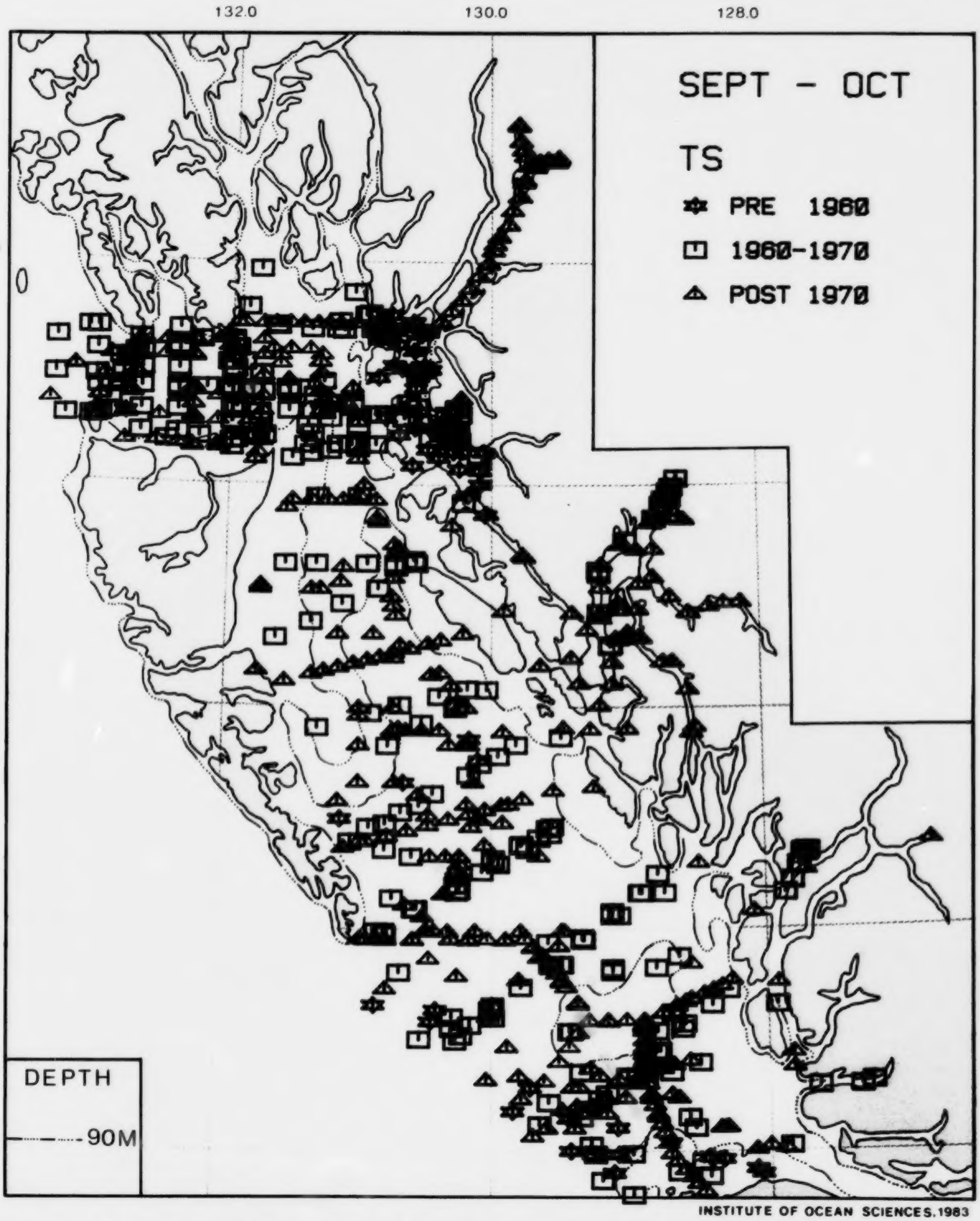

132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
SEPT - OCT
TS
PRE 1960
1960-1970
POST 1970
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES,1983

Figure 12: The locations of temperature-salinity data collected during the September - October period, all years (820 stations).

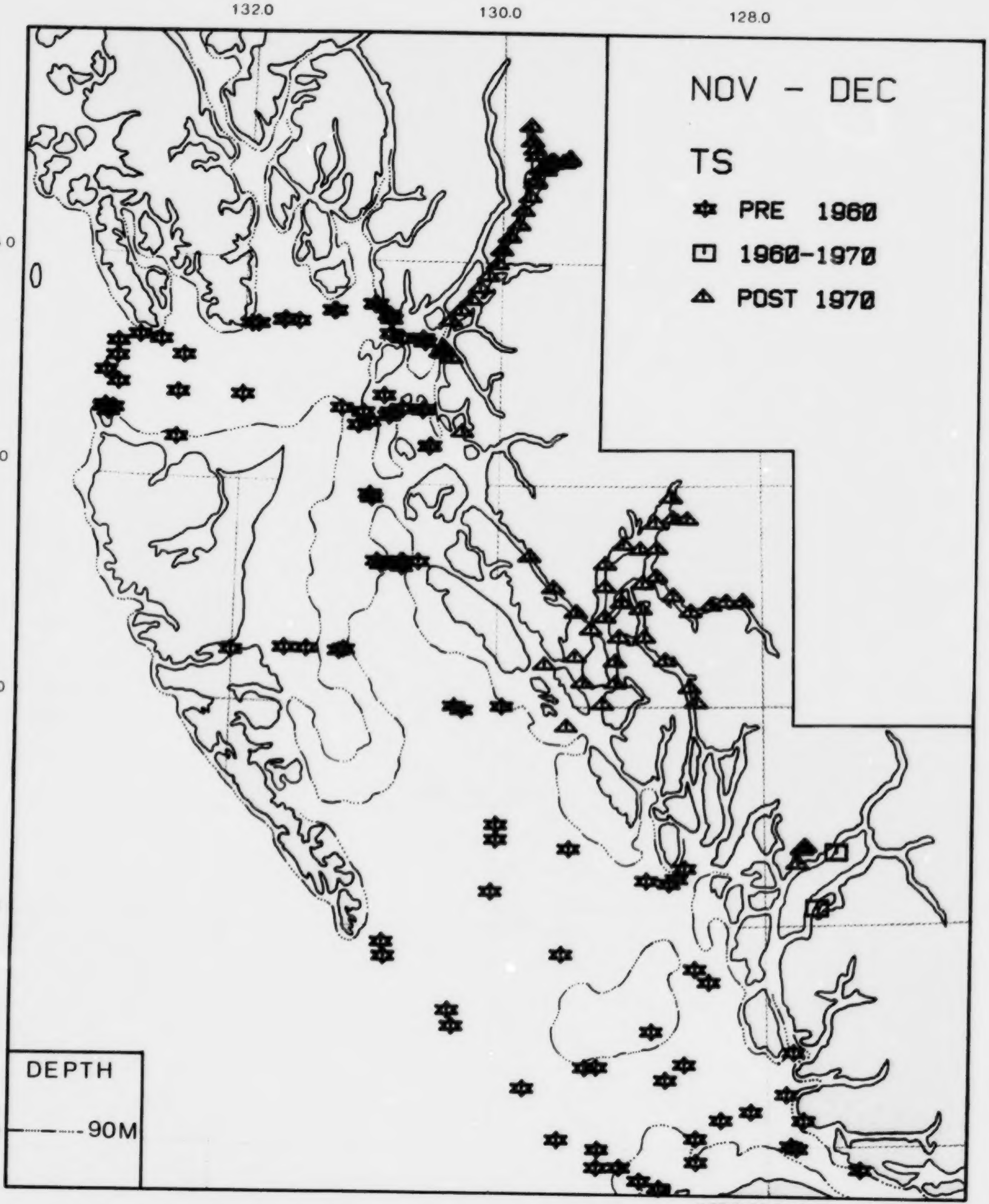
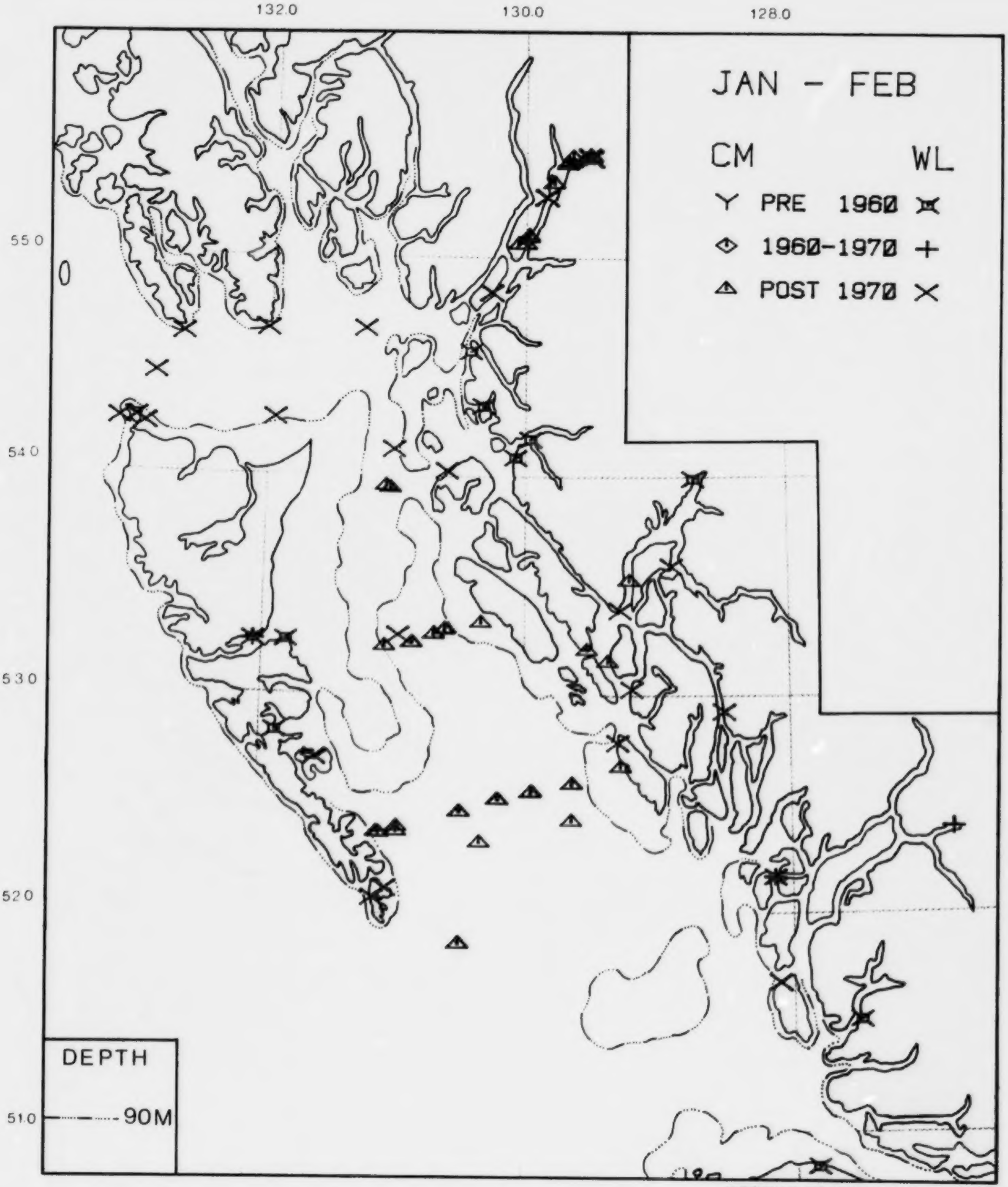

132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
NOV - DEC
TS
PRE 1960
1960-1970
POST 1970
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES,1983

Figure 13: The locations of temperature-salinity data collected during the November - December period, all years (215 stations).


132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
JAN - FEB
CM
WL
PRE 1960
1960-1970
POST 1970
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983

Figure 14: The locations of all current-meter and water-level stations in place during the January - February period, all years (137 CM, 51 WL).

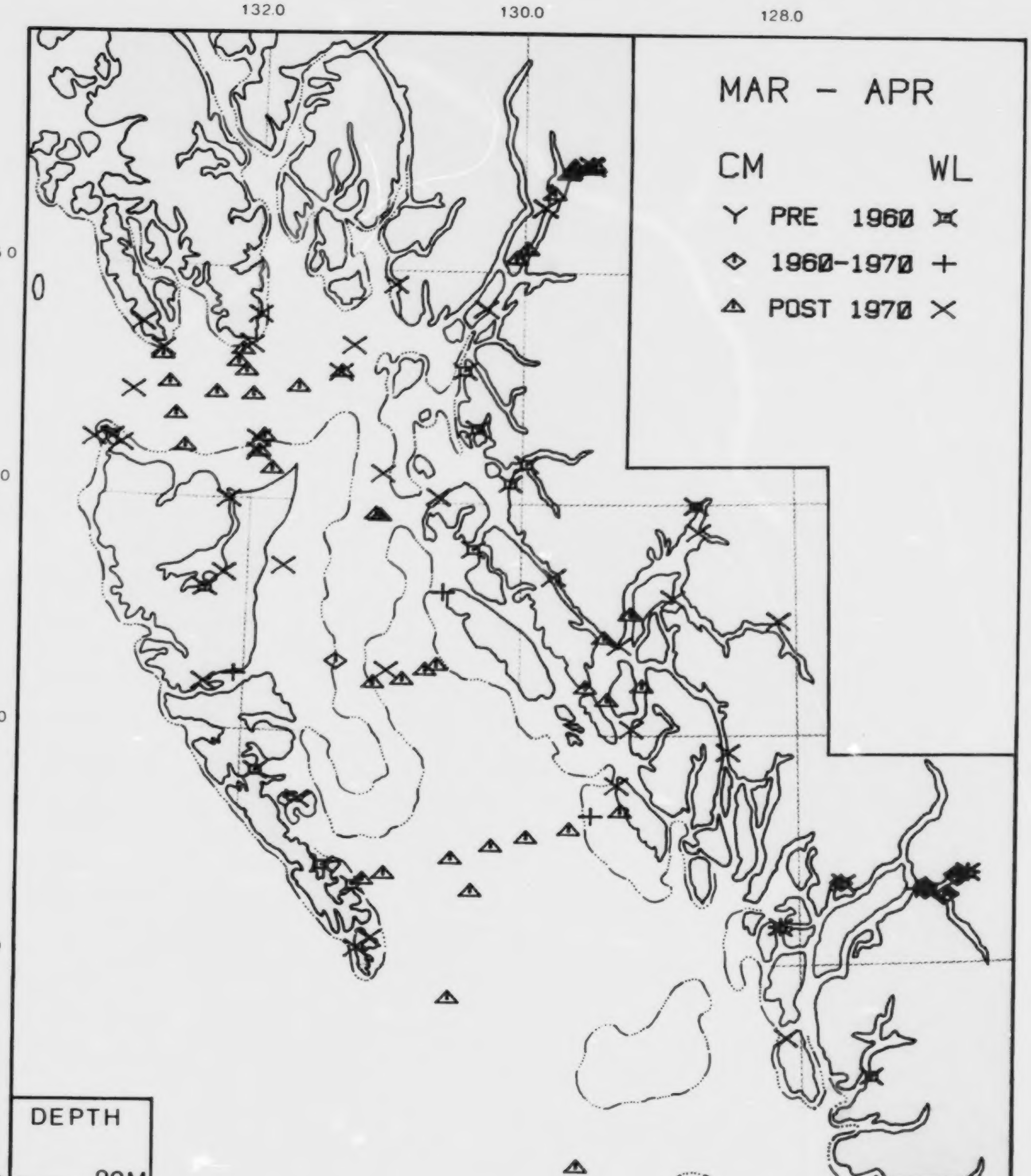

132.0
130.0
128.0
55 0
54 0
53 0
52 0
51.0
MAR - APR
CM
WL
PRE 1960
1960-1970
POST 1970
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES.1983

Figure 15: The locations of all current-meter and water-level stations in place during the March - April period, all years (161 CM, 69 WL).

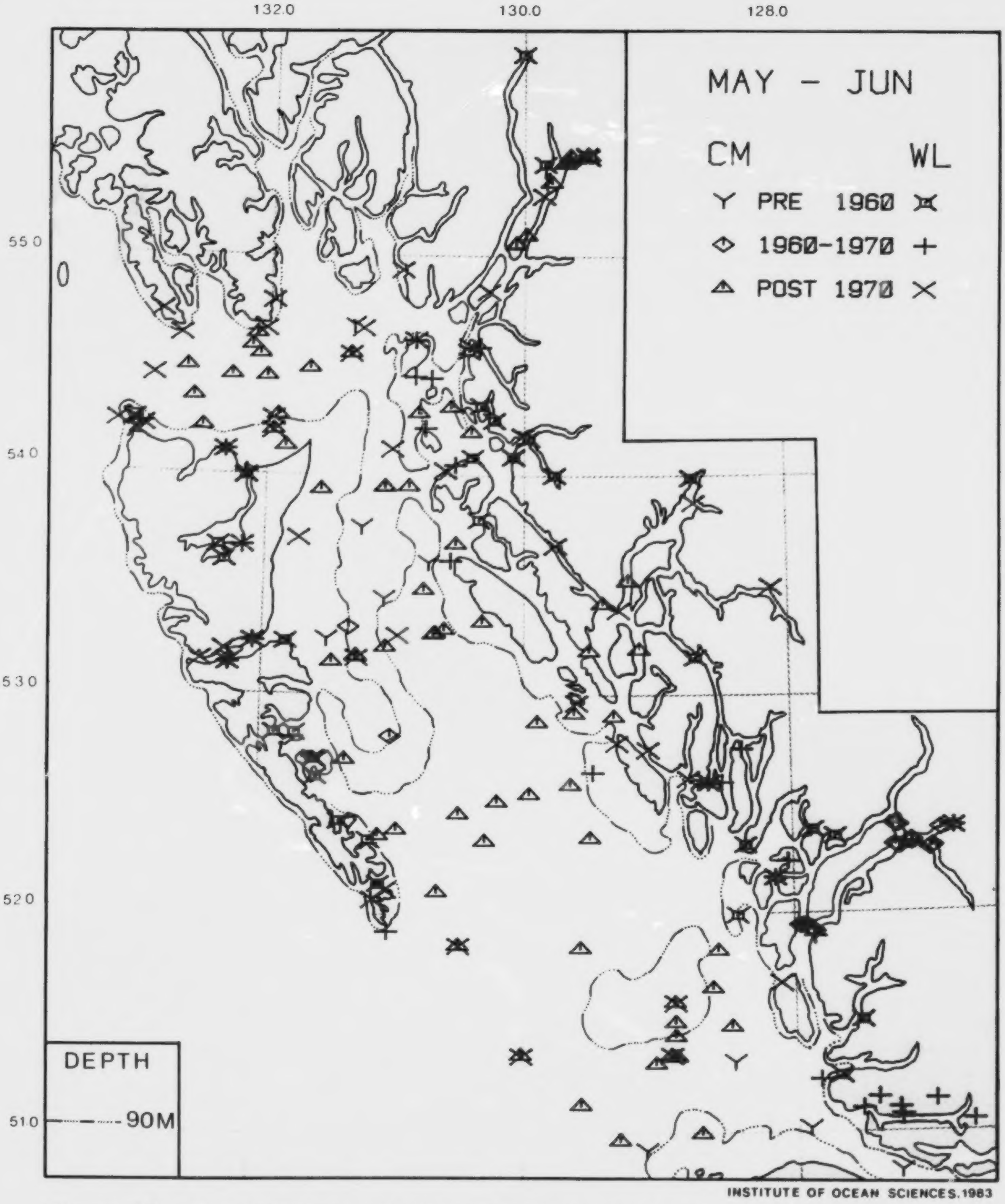

132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
MAY - JUN
CM
WL
PRE 1960
1960-1970
POST 1970
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES.1983

Figure 16: The locations of all current-meter and water-level stations in place during the May - June period, all years (241 CM, 136 WL).

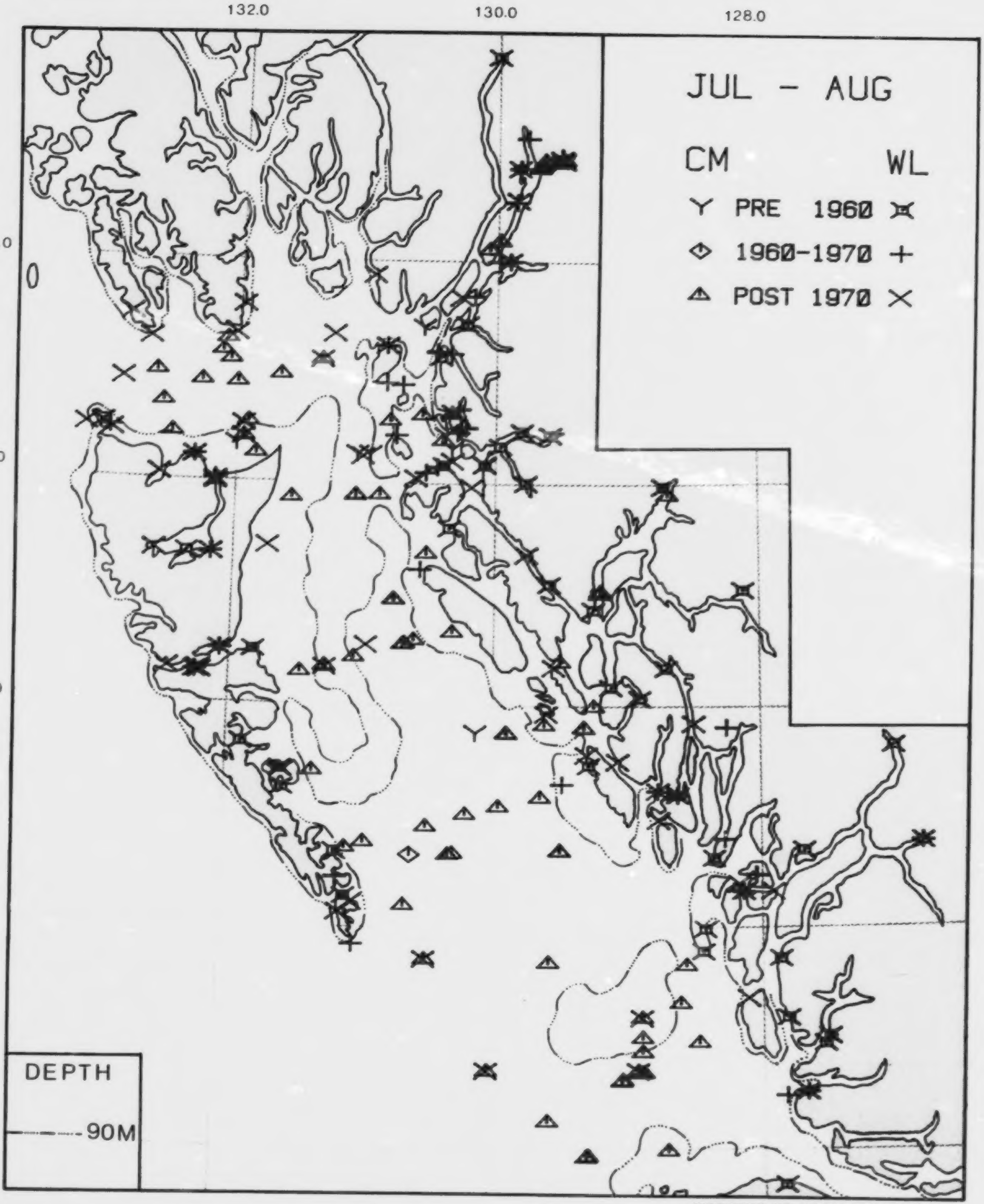

132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
JUL - AUG
CM
WL
Y PRE 1960 ⌘
◇ 1960-1970 +
△ POST 1970 ×
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES.1983

Figure 17: The locations of all current-meter and water-level stations in place during the July - August period, all years (207 CM, 163 WL).

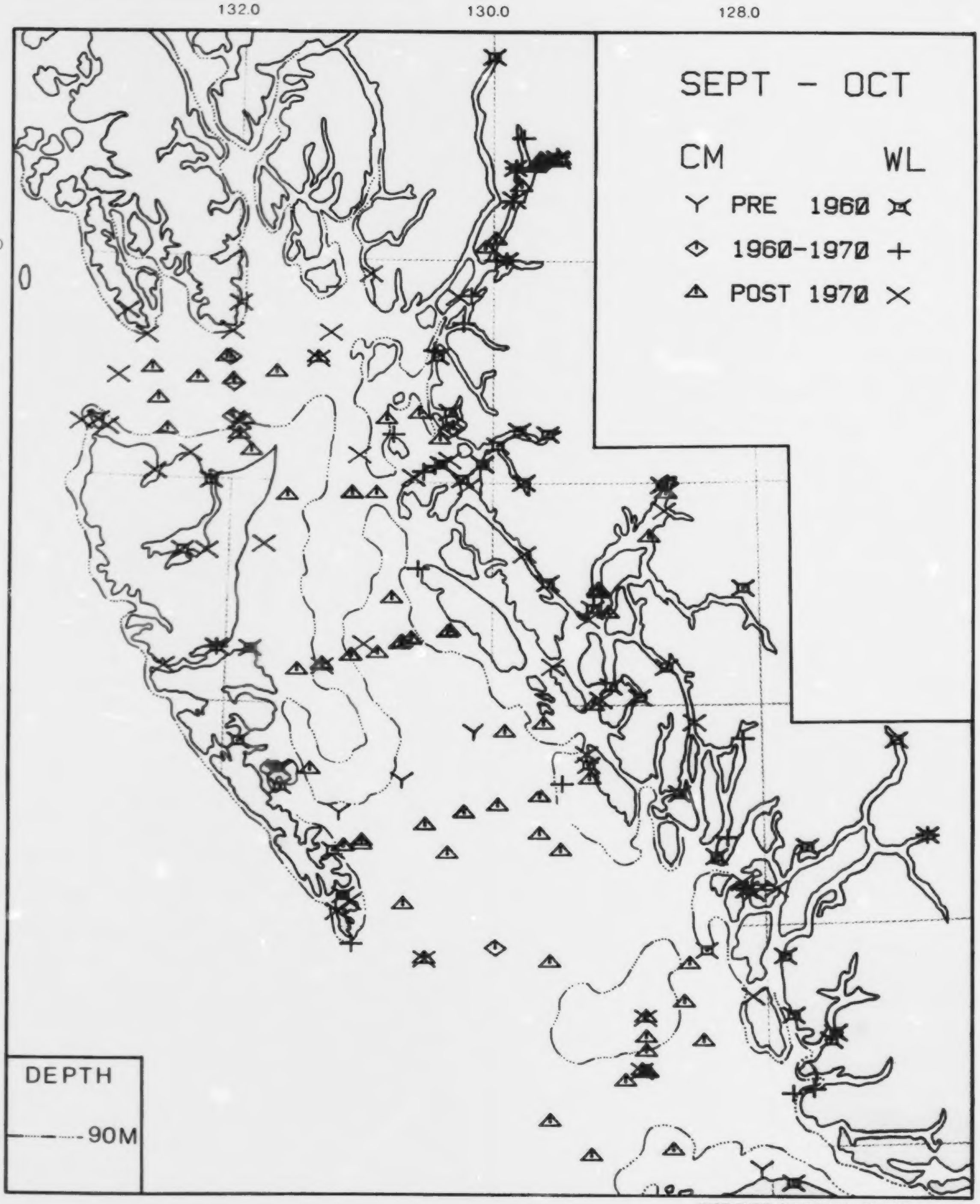

132.0
130.0
128.0
55 0
54 0
53 0
52 0
51 0
SEPT - OCT
CM
WL
Y PRE 1960 ⌘
◇ 1960-1970 +
△ POST 1970 ×
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES.1983

Figure 18: The locations of all current-meter and water-level stations in place during the September - October period, all years (263 CM, 141 WL)

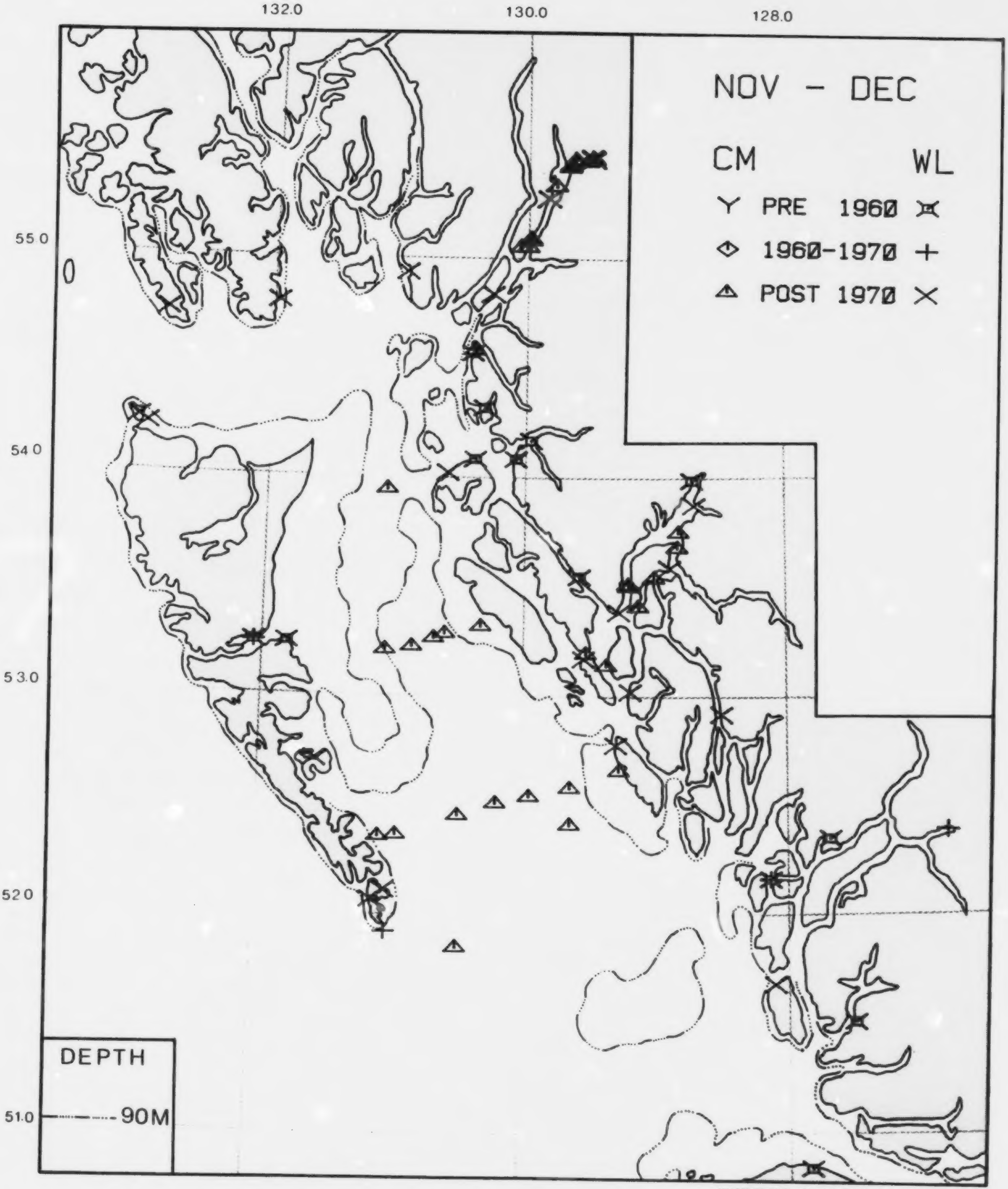

132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
NOV - DEC
CM
WL
PRE 1960
1960-1970
POST 1970
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES.1983

Figure 19: The locations of all current-meter and water-level stations in place during the November - December period, all years (122 CM, 52 WL).

measurement periods overlapped significantly. The combined data sets may improve coverage within a given area, extend coverage to a larger area, or allow comparison of simultaneous processes in different areas. The shore station data discussed in Section 3.1 are periodically synoptic. These data are not included here. Listed below are near-synoptic data sets by year and general area of coverage. Only temperature/salinity data are considered. Data sets followed by a question mark indicate uncertainty in the time period or location of the measurements. Synoptic groupings within the same year are separated by a solid line.

List of Near-Synoptic Data Sets

Data Set ID	Area	Data Set ID	Area
1963		**1977**	
63-0011A	Burke Channel, Dean Channel	77-0042A	Douglas Channel System
		77-0057B	Hecate Strait
63-0018	Burke Channel, North Bentinck Arm	77-0042B	Douglas Channel System
		77-0057C	Hecate Strait
1982		**1983**	
82-0025A	Alice Arm, Portland Inlet	83-0015	Alice Arm, Observatory Inlet
82-0036	Alice Arm, Observatory Inlet	83-0037	Alice Arm
82-0061	Alice Arm		
82-0039B	Alice Arm		
82-0064	Alice Arm		
82-0040	Alice Arm, Observatory Inlet		
82-0067	Alice Arm		

Extended Time Series

Repeated measurements in the same area may allow long-term trends to be detected and variability to be estimated. Repeated temperature and salinity measurements have been made in several areas. The listing on the following page provides, by area, extended series of data sets. The shore station data also form extended time series; refer to Section 3.1.

6.4 CONCLUSIONS

This catalogue of physical-oceanographic data for the coastal waters off British Columbia allows scientists and others to determine the coverage and quality of data in any given area. One of the most striking conclusions of this report is the large amount of relatively good temperature-salinity and water-level data that have been collected: approximately 8,500 temperature-salinity stations and 200 extended time series records of water-level. Good long-term current and surface-drift data are not as plentiful; however recent programs by the Institute of Ocean Sciences have significantly lessened this deficiency.

Extended Time Series of Temperature-Salinity Data

Dixon Entrance

34-0001
37-0004
38-0002
48-0009
51-0012
51-0016
53-0015B
54-0012A
54-0012B
54-0012C
55-0013
55-0020
55-0021
57-0007B
57-0008
57-0009
58-0008
58-0009
59-0011A
59-0011B
59-0011C
60-0011
60-0012
61-0017A
61-0017B
61-0018
61-0019
61-0020
62-0015
62-0018
62-0025
65-0012
66-0022
67-0022
78-0049
78-0053
80-0051A
80-0051B
80-0051C
80-0051D
83-0002B
83-0036A
84-0001
84-0002
84-0006
84-0007

Hecate Strait

51-0012
53-0015B
54-0012A
54-0012B
54-0012C
55-0013
55-0020
55-0021
58-0008
58-0009
59-0011A
59-0011B
59-0011C
60-0012
61-0017A
61-0017B
61-0018
62-0015
62-0018
62-0025
66-0022
67-0022
75-0069
77-0057B
77-0057C
78-0049
78-0053
78-0054
79-0056A
79-0056B
80-0051A
80-0051B
80-0051C
80-0051D
83-0002A
83-0035
83-0036B
84-0001
84-0002

Queen Charlotte Sound

36-0003
50-0006
51-0012
51-0016
53-0015B
54-0012A
54-0012B
54-0012C
54-0012D
55-0013
55-0020
55-0021
57-0007A
57-0007B
58-0007
58-0009
58-0014
59-0011A
59-0011C
60-0011
60-0012
61-0016
67-0017A
67-0017B
61-0018
61-0019
62-0015
62-0016
62-0025
64-0010
65-0012
66-0022
67-0022
68-0022
68-0024
69-0030
69-0031
70-0031
71-0037
77-0057A
77-0057B
77-0057C
78-0049
78-0053
78-0054
79-0056A
79-0056B
80-0051A
80-0051B
80-0051C
80-0051D
82-0051
82-0068
83-0002A
83-0036A
84-0001

Cousins Inlet

61-0022
62-0020
72-0036B
74-0041
74-0050A
74-0050B
75-0063

Douglas/ Gardner Channels

51-0009
62-0020
63-0011C
66-0013
67-0009
72-0026
75-0061
77-0042A
77-0042B
77-0042C
77-0042D
77-0042E
77-0043
78-0029A
78-0029B
78-0029C
81-0023

Prince Rupert/ Porpoise Harbour

64-0012
67-0008
71-0028
72-0037
73-0031
73-0032
73-0047
74-0040A
74-0040B
74-0044 (1974-84)
77-0043
77-0058
77-0079
78-0037
79-0051
80-0052
81-0050
82-0045
82-0065
83-0038

Dean/ Burke Channels

51-0009
56-0008
63-0011A
63-0011B
64-0018
65-0021
66-0013
66-0023
67-0023
69-0018
70-0020b
71-0046
72-0025
73-0049

Alice Arm/ Observatory Inlet

51-0009
66-0013
74-0042
76-0050
76-0062
76-0063
77-0059
77-0076
77-0077
77-0078
80-0043A
80-0043B
81-0018
81-0024A
81-0024B
81-0054
81-0057
81-0058
81-0059
81-0060
81-0061
81-0062
81-0063
81-0064
81-0065
81-0066
81-0067
81-0068
82-0025
82-0034
82-0036
82-0037
82-0038
82-0039A
82-0039B
82-0040
82-0052
82-0053
82-0054
82-0055
82-0056
82-0057
82-0058
82-0059
82-0060
82-0061
82-0062
82-0063
82-0064
82-0066
82-0067
83-0003A
83-0003B
83-0014
83-0015
83-0037
83-0039
84-0005

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8. DATA INVENTORY TABLE

Table 2 presents a summary listing of the data sets included in this inventory. The table lists all the data contained in the inventory sequentially by data set number. Water-property, moored current-meter, surface-drift, water-level and wave data are completely catalogued. BT data are not fully catalogued. However their existence has been noted in Table 2, and their general distribution may be deduced from the pattern of stations for a particular cruise, as they were usually collected at and along the track between stations. Over-the-side current measurements of short duration made with fixed-depth or profiling current meters have not been fully inventoried, however attempts were made to include all such data covering one tidal cycle or more.

Each column of the table contains the following information (symbols and abbreviations used in each column are explained as well):

Column 1 - Data Set I.D.

- contains the data set identifier number, which is of the form yy-nnnn, where yy are the last two digits of the year in which the data set was collected, and nnnn is the sequential number of the data set for that particular year. (The series of data set numbers applies to the whole set of inventories; gaps may appear in the sequence in any one inventory where data sets exist only in other areas or disciplines. A data set which appears in two or more areas or disciplines will have the same number in every case.) Data sets may be sub-divided by the addition of a letter at the end of the number. Sub-divisions have been used when different cruises have been grouped under one I.D. number, or when different programs were conducted on the same cruise. In the case of water-level stations, where data were collected at the same location intermittently or continuously over more than one year, one I.D. number has been used to represent the entire data set.

Column 2 - Ship or collecting agency

- contains the name of the ship (underlined), platform and/or agency.

Column 3 - Dates of measurements

- gives the dates spanning the period during which measurements were taken in the area covered by the inventory. The year is given by the first two digits of the data set number in column 1, unless the measurement period spans the end of a year, in which case it is given explicitly. Question marks mean the dates could not be confirmed, generally due to poor/lack of documentation.

Column 4 - Quantity measured

- lists the physical parameters measured in the data set. A quantity followed by a ? means that reference to such a measurement was made but no supporting details were available. Measurements identified as "Current" are Eulerian current measurements (made at a fixed location); "Current drift" refers to Lagrangian measurements. "Current profiles" are spot measurements at certain depths.

Column 5 - Instruments or methods used

- lists the instruments and methods used to make the measurements. The entries appear opposite the names of the quantities they measure. A question mark after the entry denotes an assumption, i.e. that the method used was not explicitly stated and an assumption was made from standard practice at the time. A question mark alone means that the instrument used is unknown.

Column 6 - Estimate of data precision and accuracy

- lists the estimates of the precision (repeatability) and accuracy for each instrument opposite the entry for that instrument in column 5. For instruments of a digital nature, the precision specified is based on the resolution of the instrument. Where possible, estimates made by the original investigators are used. They are entered as two numbers of the form $\pm n_1$, $\pm n_2$ where n_1 is the precision and n_2 the accuracy. Where investigator's estimates were not available, the following special symbols and entries have been used:

$[\pm n_1, \pm n_2]$: standard oceanographic methods were used, which would normally result in these values. The techniques and precision/accuracy used in this context are:

BT	[0.2C°,0.2C°]
Reversing thermometer	[0.02C°,0.03C°]
Salinity - Hydrometer	[0.2°/oo,0.2°/oo]
Salinity - Refractometer	[0.5°/oo,0.5°/oo]
Salinity - Titration	[0.02°/oo,0.04°/oo]
Salinity - Bench salinometer	[0.01°/oo,0.02°/oo] [The make/model of salinometer is often unknown, but may be specified in Appendix 1]
High Quality CTD/STD	[±0.005,0.01C°], [±0.005,0.02°/oo]

$\pm n_1$ @: manufacturer's specifications for that instrument.

$\pm n_1$?: an estimate has been given which is questionable for reasons detailed in Appendix 1.

The column is blank where no information was available and no reasonable assumption could be made.

Column 7 - Data rating number

- carries the data rating number assigned as explained in Section 5.

Column 8 - Area

- lists the areas in which the majority of the measurements in the data set were taken. (The areas are defined in Figure 1.)

Column 9 - Concurrent measurements

- lists known measurements in other disciplines taken as part of the data set. Further measurements may have been taken, but were not discovered while cataloguing the physical oceanographic data, and therefore cannot be listed.

Column 10 - Source or reference

- lists a primary source or reference for the data sets. Data sets held in the data banks at the Marine Environmental Data Service, Ottawa or at the National Oceanographic Data Center, Washington D.C. are identified, respectively by the entries MEDS# and NODC# followed by the data bank's identity number. A MEDS number alone does not necessarily mean that the data are not stored at NODC. If MEDS does not have the data then a NODC number is given if they are stored there.

TABLE 2: SUMMARY LISTING OF DATA SETS

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?-Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
03-0001	CHS	Jan.1,1903-Dec.31,1926	Water level	?	?	3	Chatham Sound		MEDS WL Stn# 9390
05-0002	CHS	July 30,1905-Aug.31,1906	Water level	?	?	3	Hecate Strait, Queen Charlotte Sound		MEDS WL Stn# 8976, 9195
05-0003	CHS	July 14,1905-Oct.2,1911	Water level	?	?	3	Queen Charlotte Sound		MEDS WL Stn# 8840
06-0002	CHS	May 1,1906-Present	Water level	?	?	3	Prince Rupert		MEDS WL Stn# 9354
07-0002	CHS	Jan.1,1907-Mar.6,1908	Water level	?	?	3	Queen Charlotte Sound, Skeena River, Dixon Entrance		MEDS WL Stn# 8976,9260,9910
09-0001	CHS	June 1,1909-Aug. 26,1911	Water level	?	?	3	Queen Charlotte Sound, Hecate Strait, Kitimat Arm, N.Bentinck Arm, Skeena River		MEDS WL Stn# 8870, 8937 9130, 9140, 9255, 9260, 9265
10-0002	CHS	May 15-Oct.27	Water level	?	?	3	Hecate Strait		MEDS WL Stn# 9910, 9923
10-0003	CHS	Feb.9,1910-Oct.28,1913	Water level	?	?	3	Hecate Strait		MEDS WL Stn# 9775
11-0001	CHS	Aug.7-Sept.15, Sept.20-Oct.17	Water level	Richard	?	3	Hecate Strait, Skidegate Channel		MEDS WL Stn# 9850
11-0002	CHS	Oct.29,1911-May 11,1912	Water level	?	?	3	Dean Channel		MEDS WL Stn# 8962
12-0001	CHS	May 17-Oct.31	Water level	?	?	3	Skeena River, Stewart		MEDS WL Stn# 9270,9443,9475
13-0002	CHS	July 5-Oct.25	Water level	?	?	3	Hecate Strait, Skidegate Channel, Portland Inlet		MEDS WL Stn# 9425, 9850

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
14-0003	CHS	May 20- Oct.31	Water level	?	?	3	Skeena River, Hecate Strait		MEDS WL Stn# 9090, 9260
15-0003	CHS	May 24- Oct.31	Water level	?	?	1	Hecate Strait, Skidegate Channel, Fitz Hugh Sound		MEDS WL Stn# 8840, 9808, 9850
16-0003	CHS	May 1- Oct.27	Water level	?	?	3	Observatory Inlet		MEDS WL Stn# 9443
22-0001	CHS	May 12,1922 Oct.5,1923	Water level	?	?	3	Queen Charlotte Sound, Dean Channel		MEDS WL Stn# 8962, 9080
23-0002	CHS	Oct.17- Dec.17	Water level	?	?	3	Hecate Strait, Skidegate Channel		MEDS WL Stn# 9850
24-0002	CHS	May 31,1924- Jan.10,1925	Water level	?	?	3	Hecate Strait, Skidegate Channel		MEDS WL Stn# 9060, 9808
28-0003	CHS	June 27- Sept.18	Water level	?	?	3	Queen Charlotte Sound		MEDS WL Stn# 8909, 9005
30-0002	CHS	June 21- Dec.31	Water level	?	?	3	Chatham Sound		MEDS WL Stn# 9309
31-0003	CHS	July 5,1931- Jan.31,1932	Water level	?	?	3	Queen Charlotte Sound		MEDS WL Stn# 8416
34-0001	CATALYST, University of Washington	Sept.3-4	Temperature	Reversing Thermometer	[±.02,.03C°]	3	Dixon Entrance		POG (1956) MEDS # 180234606
			Salinity	Titration?	[±.02,.04°/oo]				
34-0002	AES Meteorological Station at Cape St. James	July 27,1934 - Present	Temperature	1934-39, Thermometer	?, ±.3C°	3	Queen Charlotte Sound		Giovando (pers. comm.)
				1940 - Present, Thermometer	?, ±0.2°				
			Salinity	1934-58, Titration	?, ±0.06°/oo				
				1959-70, Salinometer	?, ±0.02°/oo				
				1971 - Present, Hydrometer	?, ±0.3°/oo				

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?-Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
35-0003	CHS	May 5- Sep.2	Water level	?	?	3	Queen Charlotte Sound		MEDS WL Stn# 9713
35-0004	DOT Light Station at Green Island	Feb.1,1935- Sep.14,1936	Temperature Salinity	Thermometer Titration	?, ±.3C° ?, ±0.06°/oo	3	Dixon Entrance		Giovando (pers. comm.)
36-0003	ARMENTIERES, POG	Sep.4-5	Temperature Salinity	Reversing Thermometer Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Queen Charlotte Sound	pH, Weather	POG (1950) MEDS # 180236610
36-0004	DOT Light Station at Langara Island	Oct.22,1936- Aug.28,1937	Temperature Salinity	Thermometer Titration	?,.3C° ?, ±0.06°/oo	3	Langara Island, Dixon Entrance		Giovando (pers. comm.)
37-0004	CATALYST, University of Washington	July 25-27	Temperature Salinity	Reversing Thermometer? Titration?	[±.02,.03C°] [±.02,.04°/oo]	3	Dixon Entrance	O_2, Wind	POG (1956) MEDS # 180237613
37-0008	DOT Light Station at Ivory Island	July 27,1937 -Dec.31,1955	Temperature Salinity	Thermometer Titration	?, ±0.2-0.3C° ?, ±0.06°/oo	3	Queen Charlotte Sound		Giovando (pers. comm.)
37-0009	DOT Light Station at Pine Island	Jan.14,1937 - Present	Temperature Salinity	Thermometer 1937-58, Titration 1959-69, Salinometer 1970-Present, Hydrometer	?, ±0.2-0.3C° ?, ±0.06°/oo ?, ±0.02°/oo ?, ±0.3°/oo	3	Queen Charlotte Strait		Giovando (pers. comm.)
38-0002	AMLAC, POG	May 24- June 6	Temperature Salinity	Reversing Thermometer Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Dixon Entrance, Hecate Strait	O_2, Weather	POG (1956) MEDS # 180238620 NODC # 50191
39-0001	DOT Light Station at Triple Island	Nov.1,1939- Dec.16,1970	Temperature Salinity	Thermometer 1939-58, Titration 1959-69, Salinometer 1970, Hydrometer	?, ±0.2-0.3C° ?, ±0.06°/oo ?, ±0.02°/oo ?, ±0.3°/oo	3	Dixon Entrance		Giovando (pers. comm.)

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?-Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
40-0004	DOT Light Station at Langara Island	Mar.2,1940-Present	Temperature Salinity	Thermometer 1940-58, Titration 1959-69, Salinometer Sep.23,1969-Present, Hydrometer	?, ±0.2C° ?, ±0.06^{o}/oo ?, ±0.02^{o}/oo ?, ±0.3^{o}/oo	3	Dixon Entrance		Giovando (pers. comm.)
40-0005	DOT Light Station at Prince Rupert	Jan.2,1940-June 11,1942	Temperature Salinity	Thermometer Titration	?, ±0.2C° ?, ±0.06^{o}/oo	3	Prince Rupert		Giovando (pers. comm.)
40-0006	DOT Light Station at Masset	Jan.1,1940-Oct.31,1942	Temperature Salinity	Thermometer Titration	?, ±0.2C° ?, ±0.06^{o}/oo	3	Masset		Giovando (pers. comm.)
40-0007	DOT Light Station at Shannon Bay	Jan.1,1940-Aug.31,1941	Temperature Salinity	Thermometer Titration	?, ±0.2C° ?, ±0.06^{o}/oo	3	Masset Inlet		Giovando (pers. comm.)
41-0002	DOT Light Station at Port Clements	Oct.1,1941-Aug.31,1942	Temperature Salinity	Thermometer Titration	?, ±0.2C° ?, ±0.06^{o}/oo	3	Masset Inlet		Giovando (pers. comm.)
42-0003	CHS	Sept.9-12	Water level	?	?	3	Fitz Hugh Sound		MEDS WL Stn# 8860
43-0002	CHS	June 18-19	Water level	?	?	3	Chatham Sound (Morse Basin)		MEDS WL Stn# 9344
47-0003	CHS	May 22-Aug.22	Water level	?	?	3	Queen Charlotte Sound		MEDS WL Stn# 8810
48-0009	EHKOLI, POG	May 19-Sep.10	Temperature Salinity Drift	BT Reversing Thermometer Titration Free Current Drags	[±.2,.2C°] [±.02,.03C°] [±.02,.04^{o}/oo] [±10 cm/s]	3	Chatham Sound, Dixon Entrance	Wind, Air Temperature, Sea State	Trites (1953, 1956)
49-0007	CHS	July 23-Oct.6	Water level	?	?	3	Skeena River		MEDS WL Stn# 9275, 9285
50-0006	CEDARWOOD, POG	Sep.16-17	Temperature Salinity	Reversing Thermometer? Titration?	[±.02,.03C°] [±.02,.04^{o}/oo]	3	Scott Shelf	O_2	Scripps (1960) MEDS # 180250667 NODC # 18CE50424

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
50-0010	CHS	July 19-Aug.15	Water level	?	?	3	Hecate Strait		MEDS WL Stn# 9242
51-0009	EHKOLI, UBC	June 8-July 31	Temperature Salinity	BT Reversing Thermometer Titration	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo]	3	Seymour Inlet (south) to Portland Canal (north)	O_2, Secchi, Weather	IOUBC (1953) MEDS # 181351800 NODC # 18EH50435
51-0012	CEDARWOOD, POG	May 13-24	Temperature Salinity	Reversing Thermometer Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance		POG (1956) MEDS # 180251660
51-0013	CHS	Aug.8,1951-Oct.29,1952	Water level	Lege	?	3	Gardner Canal		MEDS WL Stn# 9150
51-0015	CHS	Aug.6,1951-Aug.5,1954	Water level	Lege	?	3	Kitimat Arm		MEDS WL Stn# 9140
51-0016	CEDARWOOD, POG	July 23-Aug.1	Temperature Salinity	Reversing Thermometer Titration	[±.02,.03C°] [±.02,.04°/oo	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Secchi, O_2, Wind, Sea State, Humidity Atmospheric Pressure, Turbidity	POG (1956) MEDS # 180251661 NODC # 50421
51-0017	CEDARWOOD, POG	Aug.1	Temperature Salinity	?	?	2	Dixon Entrance		NODC # 50296
52-0013	CEDARWOOD, POG	July 12-27	Current Drift, Current Profile	Drift Pole Ekman Meter	±10cm/s	3	Hecate Strait		Mackay (1953,1954)
53-0015A	CANCOLIM II, UBC	June 14-27	Temperature Salinity	BT Reversing Thermometer Titration	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo]	3	Queen Charlotte Sound	Secchi, O_2, Plankton, Benthos	IOUBC (1955a) NODC # 50521 MEDS # 181353811
53-0015B	CANCOLIM II, UBC	July 16-Aug.10	Temperature Salinity	BT Reversing Thermometer Titration	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo]	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Secchi, Wind, O_2, Plankton, Benthos	IOUBC (1955a) MEDS # 181353813 NODC # 18CA50521

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
53-0016	CHS	Apr.28,1953 Aug.6,1954	Water level	Lege,?	?	3	Kitkatla Channel, Princess Royal Channel, Hecate Strait		MEDS WL Stn# 9053, 9115, 9242
53-0017	CHS	Apr.23-June 6	Water level	?	?	3	Masset Inlet		MEDS WL Stn# 9927
53-0018	DOT Light Station at Sandspit	Aug.1,1953 Dec.20,1956	Temperature Salinity	Thermometer Titration	?, ±0.2C° ?, ±0.06°/oo	3	Hecate Strait		Giovando (pers. comm.)
54-0012A	CEDARWOOD, POG	May 6-27	Temperature Salinity Current drift, Current profiles	BT Reversing Thermometer Titration Current Drag Ekman Meter	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo] [±10cm/s]	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Secchi, Wind, O_2, Sediment	POG (1955a,c) Barber and Groll (1955) MEDS # 180254688 NODC # 50505
54-0012B	EHKOLI, POG	July 1-19	Temperature Salinity Current drift, Current profile	BT Reversing Thermometer Titration Current Drag Ekman Meter	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo] [±10cm/s]	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Secchi, O_2, Sediment	POG (1955a,c) Barber and Groll (1955)? MEDS # 180254689 NODC # 50515
54-0012C	CEDARWOOD, POG	Aug.18-Sep.7	Temperature Salinity Current drift, Current profile	BT Reversing Thermometer Titration Current Drag Ekman Meter	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo] [±10cm/s]	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Secchi, Wind, O_2, Sediment	POG (1955a,c) Barber and Groll (1955) MEDS # 180254690 NODC # 50515
54-0012D	CEDARWOOD, POG	Nov.18-Dec.2	Temperature Salinity	BT Reversing Thermometer Titration	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo]	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Secchi, O_2, Sediment	POG (1955a) MEDS # 180254691 NODC # 50515
54-0016	CHS	May 23-June 12	Water level	Lege	?	3	Hecate Strait		MEDS WL Stn# 9770

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measure-ments	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
54-0017	CHS	July 28-Aug.27	Water level	Foxboro	?	3	Portland Inlet		MEDS WL Stn# 9414
54-0018	DOT Light Station at McInnes Island	July 23,1954 - Present	Temperature Salinity	Thermometer 1954-58, Titration 1959-69, Salinometer Nov.1,1969 - Present, Hydrometer	?, ±0.2C° ?, ±0.06°/oo ?, ±0.02°/oo ?, ±0.3°/oo	3	Queen Charlotte Sound		Giovando (pers. comm.)
55-0012	__CEDARWOOD__, __UBC__	July 10	Temperature Salinity	BT Reversing Thermometer Titration	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo]	3	Smith Inlet	O_2, Secchi	IOUBC (1955b) MEDS # 181355823 NODC # 50756
55-0013	__CEDARWOOD__, __POG__	May 30-June 24	Temperature Salinity Current, Current profile	BT Reversing Thermometer Titration Current Drag Ekman Meter	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo] [±10cm/s] ?	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Weather, O_2	POG (1955b) Barber (1957) MEDS # 180255699 NODC # 18CE808
55-0020	__JONQUIERE__, __POG__	Feb.6-14	Temperature Salinity	BT Reversing Thermometer Titration	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo]	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Weather	POG (1955b) MEDS # 180255694 NODC # 18J0808
55-0021	__JONQUIERE__, __POG__	Apr.14-18	Temperature Salinity	BT Reversing Thermometer Titration	[±.2,.2C°] [±.02,.03C°] [±.02,.04°/oo]		Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Weather	POG (1955b) MEDS # 180255695 NODC # 18J0808
55-0022	CHS	May 11-Sep. 24	Water level	?	?	3	Hecate Strait, Skidegate Channel		MEDS WL Stn# 9765 9808
56-0008	__CEDARWOOD__, __UBC__	July 14-22	Temperature Salinity	Bucket Thermometer Reversing Thermometer BT Titration	? [±.02,.03C°] [±.2,.2C°] [±.02,.04°/oo]	3	Inlets adjoining Queen Charlotte Sound	Secchi, O_2	IOUBC (1956a) MEDS # 181356828 NODC # 18CE906

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
56-0009	EHKOLI, UBC	May 12-15	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Queen Charlotte Strait	Secchi, O_2, PO_4, Plankton	IOUBC (1956b) MEDS # 181356826 NODC # 50800
			Salinity	Titration	[±.02,.04°/oo]				
56-0015	CHS	Aug.31-Sep.21	Water level	?	?	3	Dean Channel		MEDS WL Stn# 8970
56-0016	CHS	May 9-Sep.21	Water level	?	?	3	Hecate Strait		MEDS WL Stn# 9753
56-0017	CHS	Apr.24,1956-June 3,1957	Water level	?	?	3	Dean Channel, N.Bentinck Arm		MEDS WL Stn# 8937, 8984
57-0007A	OSHAWA, POG	Sep.27-Oct.1	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Queen Charlotte Sound	Secchi, O_2, PO_4, Plankton	POG (1958b) MEDS # 180257712 NODC # 50764
			Salinity	Salinometer	[±.01,.02°/oo]				
57-0007B	OSHAWA, POG	Dec.2-17	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Queen Charlotte Sound, Dixon Entrance	Secchi, O_2 Plankton	POG (1958b) MEDS # 180257716 NODC # 18OS764
			Salinity	Salinometer	[±.01,.02°/oo]				
57-0008	OSHAWA, POG	Feb.20-21	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Dixon Entrance	O_2, PO_4, Zooplankton	POG (1957), Dodimead (1958) MEDS # 180257705 NODC # 18OS564
			Salinity	?	?,±.04°/oo				
57-0009	HORIZON, Scripps Inst.	Aug.19	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Dixon Entrance	O_2	MEDS # 31HO08020 MEDS # 31SB08020 NODC # 21SB802
			Salinity	Titration	[±.02,.04°/oo				
57-0016	OSHAWA, POG	May 2-11	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Approaches to Dixon Entrance and Queen Charlotte Sound	O_2, Weather, Plankton	POG (1958b) MEDS # 180257708 NODC # 50764
			Salinity	Titration	[±.02,.04°/oo]				
57-0017	CHS	June 29-Sep.13	Water level	Lege	?	3	Hecate Strait		MEDS WL Stn# 9724
57-0018	CHS	May 29,1957-Jan.2,1958	Water level	Lege	?	3	Hecate Strait, Dixon Entrance		MEDS WL Stn# 9827, 9850, 9940
57-0019	CLIFTON, UBC	May 30	Temperature Salinity	?	?	2	Queen Charlotte Strait		MEDS # 181357839 NODC # 18CL50097

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
58-0007	OSHAWA, POG	Mar.15-23	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Queen Charlotte Sound, Dixon Entrance	Secchi, O_2, Plankton, Fish	POG (1958a) MEDS # 180258719 NODC # 180S749
			Salinity	Salinometer	[±.01,.02°/oo]				
58-0008	OSHAWA, POG	June 26-July 1	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Secchi, pH, O_2, SiO_3, NO_3, NO_2, NH_3, P, Light Attenuation, Weather	Strickland (1958) MEDS # 180258723
			Salinity	Salinometer	[±.01,.02°/oo]				
58-0009	WHITETHROAT, POG	Nov.18-Dec.2	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Secchi, O_2, SiO_3, NO_3, Plankton, Weather	POG (1959a) MEDS # 180258730 NODC # 18WH722
			Salinity	Salinometer	[±.01,.02°/oo]				
58-0012	CHS	May 3-Oct.15	Water level	Foxboro	?	3	Hecate Strait		MEDS WL Stn# 9724, 9733
58-0014	OSHAWA, POG	July 26-Aug.1	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Approaches to Dixon Entrance and Queen Charlotte Sound	Plankton, O_2	POG (1958c) MEDS # 180258725 NODC # 50719
			Salinity	Salinometer	[±.01,.02°/oo]				
59-0011A	OSHAWA, POG	June 21-30	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Secchi, O_2, NO_3, Plankton, Weather	POG (1959c) MEDS # 180259735 NODC # 180S900
			Salinity	Salinometer	[±.01,.02°/oo]				
59-0011B	OSHAWA, POG	Dec.2-10	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Secchi, O_2, NO_3, Plankton	Herlinveaux (1959b) Herlinveaux et al. (1960) MEDS # 180259740
			Salinity	Salinometer	[±.01,.02°/oo]				
59-0011C	OSHAWA, POG	Apr.13-21	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Secchi, O_2, NO_3, Plankton	POG (1959b) Herlinveaux (1959c) MEDS # 180259733 NODC # 180S787
			Salinity	Salinometer	[±.01,.02°/oo]				
59-0017	CHS	Apr.21-Sep.30	Water level	Lege, Foxboro	?	3	Queen Charlotte Sound, Fitz Hugh Sound, Hecate Strait		MEDS WL Stn# 8830, 8860, 8906, 9724, 9733

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
59-0018	OSHAWA, POG	Jan.28-31	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Dixon Entrance	O_2,Zooplankton	POG (1959d), MEDS # 180259731 NODC # 180S50788
			Salinity	Salinometer	[±.01,.02°/oo]				
59-0019	OSHAWA, POG	Aug.26	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Dixon Entrance	O_2, Plankton, Secchi	POG (1959e)
			Salinity	Salinometer	[±.01,.02°/oo]				
60-0011	OSHAWA, POG	Aug.28-Sep.6	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Queen Charlotte Sound, Dixon Entrance	Secchi, O_2, Plankton	Dodimead et al. (1960) MEDS # 180260752 NODC # 180S506
			Salinity	Salinometer	[±.01,.02°/oo]				
60-0012	OSHAWA, POG	Oct.20-26	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Queen Charlotte Sound, Queen Charlotte Strait, Hecate Strait, Dixon Entrance, Chatham Sound, Smith Inlet	O_2, Weather, Plankton, Secchi	Lane et al. (1960) MEDS # 180260754 NODC # 180S510
			Salinity	Salinometer	[±.01,.02°/oo]				
60-0017	CHS	Apr.27,1960-Oct.5,1961	Water level	Lege, Foxboro	?	3	Queen Charlotte Sound, Belize Inlet, Hecate Strait, Seymour Inlet		MEDS WL Stn# 8458, 8464, 8470, 8476, 8482,8488, 9010, 9020, 9026, 9077, 9035, 9502
60-0018	DOT Light Station at Bonilla Island	Apr.7,1960-Present	Temperature Salinity	Thermometer 1960-69, Salinometer Jan.1,1970-Present, Hydrometer	?, ±0.2C° ?, ±0.02°/oo ?, ±0.3°/oo	3	Hecate Strait		Giovando (pers. comm.)
61-0016	OSHAWA, POG	Apr.12-13	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Queen Charlotte Sound	O_2, Turbidity, Weather, Plankton	Lane et al. (1961a) MEDS # 180261762 NODC # 180S621
			Salinity	Salinometer	[±.01,.02°/oo]				
61-0017A	WHITETHROAT, POG	July 27-Aug.5	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Q.C. Sound, Q.C. Strait, Hecate Strait, Dixon Entrance	Secchi, O_2, Plankton	Crean et al. (1962a) MEDS # 180261769 NODC # 18WH533
			Salinity	Salinometer	[±.01,.02°/oo]				

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
61-0017B	OSHAWA, POG	Oct.4-17	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Queen Charlotte Sound, Queen Charlotte Strait, Hecate Strait, Dixon Entrance	Secchi, O_2	Crean et al. (1962a) MEDS # 180261774 NODC # 50592
			Salinity	Salinometer	[±.01,.02°/oo]				
61-0018	OSHAWA, POG	Feb.10-16	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Secchi, O_2, Plankton	Lane et al. (1961b) MEDS # 180261759 NODC # 50532
			Salinity	Salinometer	[±.01,.02°/oo]				
61-0019	OSHAWA, POG	June 3-14	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Queen Charlotte Sound, Dixon Entrance	O_2, Secchi, Plankton	Dodimead et al. (1961a) Dodimead et al. (1961b) MEDS # 180261765 NODC # 50512
			Salinity	Salinometer	[±.01,.02°/oo]				
61-0020	OSHAWA, WHITETHROAT, STRANGER, HUGH M. SMITH; Operation Leapfrog; POG/ Scripps/U.S. Navy	Sep.2-4	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Dixon Entrance	O_2	Herlinveaux (1961) MEDS # 180961771 MEDS # 31ST06260 NODC # 31ST0626 NODC # 1899563
			Salinity	Salinometer	[±.01,.02°/oo]				
61-0021	OSHAWA, PBS	July 3-15	Temperature Salinity	?	±0.1 ±0.02	2	Hecate Strait	Soluble Organics, O_2, Diatoms, Small Flagellates, Dinoflagellates, Detritus, Chl.a, N, NO_3, SiO_3	Antia et al. (1962) NODC # 180S1058
61-0022	EHKOLI, PBS	Sep.15-21	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Fisher Channel, Cousins Inlet, Prince Rupert Harbour	Secchi, O_2, Intertidal Organisms, pH, Alkalinity, Bottom Samples, Spent Sulphite	Waldichuk (1962a) Waldichuk & Bousfield (1962) Waldichuk et al. (1968)
			Salinity	Salinometer	[±.01],.02°/oo				
			Current profiles	Ekman-Merz	?				
			Current (surface)	Drag	?				
61-0023	CHS	July 15-continuing	Water level	Lege Foxboro	?	3	Queen Charlotte Sound, Dixon Entrance		MEDS WL Stn# 8976, 9028, 9063, 9414

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
62-0015	OSHAWA, POG	Jan.17-Feb.5	Temperature	Reversing Thermometer BT	[±.02,.03C°] [±.2,.2C°]	3	Queen Charlotte Sound, Queen Charlotte Strait, Hecate Strait, Dixon Entrance	Secchi, O_2	Crean et al. (1962b) MEDS # 180262778 NODC # 50531
			Salinity	Salinometer	[±.01,.02°/oo]				
62-0016	OSHAWA, POG	June 8-23	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Queen Charlotte Sound, Dixon Entrance	Secchi, O_2, Plankton	Dodimead et al. (1962) MEDS # 180262785 NODC # 50516
			Salinity	Salinometer	[±.01,.02°/oo]				
62-0017	WHITETHROAT	Feb.15	Temperature	BT Reversing Thermometer	±0.1C° [±.02,.03C°]	3	Queen Charlotte Strait	O_2	Herlinveaux (1963) MEDS # 180962779 NODC # 18WH536
			Salinity	Salinometer	±0.004,[.02°/oo]				
62-0018	OSHAWA, POG	Sep.19-Oct.10	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Dixon Entrance, Hecate Strait	Meteorological Observations Including Wind Velocity, O_2	Crean et al. (1963) Crean (1967) MEDS # 180262790 NODC # 18OS544
			Salinity	Salinometer	[±.01,.02°/oo]				
			Current drift	Surface drift pole	[±10cm/s]				
			Current profiles	Ekman Meter	?				
62-0019	EHKOLI, UBC	May 18-21	Temperature	Reversing Thermometer	[±.02,.03C°]	3	Belize Inlet, Seymour Inlet	Secchi, O_2	IOUBC (1963) NODC # 19EH50941
			Salinity	Titration	[±.02,.04°/oo]				
62-0020	EHKOLI, POG	Apr.11-26	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Fisher Channel, Cousins Inlet, Douglas Channel, Kitimat Arm, Prince Rupert Harbour	Secchi, O_2, Wind Velocity, Alkalinity, pH	Waldichuk et al. (1968)
			Salinity	Salinometer	[±.01,.02°/oo]				
			Current	Chesapeake Bay Institute Drag	[±10cm/s]				
			Current profiles	Ekman Meter	?				
62-0025	OSHAWA, POG	Mar.12-Apr.5	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Secchi, O_2,	Crean et al. (1962c) MEDS # 180262781 NODC # 50500
			Salinity	Salinometer	[±.01,.02°/oo]				
62-0026	EHKOLI, UBC	June 29-July 9	Temperature	Reversing Thermometer	[±.02,.03C°]	3	Queen Charlotte Strait		IOUBC (1963) MEDS # 181362934
			Salinity	Titration	[±.02,.04°/oo]				

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
62-0027	CHS	Apr.24,1962 -Oct.9,1963	Water level	Lege, Foxboro	?	3	Queen Charlotte Sound, Hecate Strait, Portland Inlet		MEDS WL Stn# 8810, 8805, 9232, 9406, 9422
63-0011A	WHITETHROAT, UBC	May 16-20	Temperature	Bucket Thermometer BT Reversing Thermometer	±0.1C° ±0.01C°	3	Burke Channel, Dean Channel, Cascade Inlet, Roscoe Inlet	O_2, Secchi	IOUBC (1964) MEDS # 181363017 NODC # 18WH955
			Salinity	Titration	[±.02,.04°/oo]				
63-0011B	WHITETHROAT, UBC	June 7-9	Temperature	Bucket Thermometer BT Reversing Thermometer	±0.1C° ±0.01C°	3	Rivers Inlet, Fisher Channel, Burke Channel, Dean Channel	O_2, Secchi	IOUBC (1964) MEDS # 181363020 NODC # 18WH957
			Salinity	Titration	[±.02,.04°/oo]				
63-0011C	WHITETHROAT, UBC	June 27-30	Temperature	Bucket Thermometer BT Reversing Thermometer	±0.1C° ±0.01C°	3	Gardner Canal, Douglas Channel, Porcher Island, Portland Inlet, Khutzeymateen Inlet	O_2, Secchi	IOUBC (1964) MEDS # 181363023 NODC # 18WH959
			Salinity	Titration	[±.02,.04°/oo]				
63-0017	CHS	June 1,1963 -Oct.10,1964	Water level	Lege, Foxboro	?	3	Nass River, Observatory Inlet, Masset Inlet, Skidegate Channel		MEDS WL Stn# 9140, 9422, 9425, 9435, 9450, 9827, 9850,9910, 9920, 9963
63-0018	VELELLA, POG	Apr.18-May 27	Temperature	Bucket Samples BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Burke Channel, N.Bentinck Arm		Dodimead and Herlinveaux (1968)
			Salinity	Titration	?, ±0.1°/oo				
			Current	Drogues	?				
64-0010	ACONA, (U.S.)	Sep.26-28	Temperature Salinity	?	?	2	Queen Charlotte Sound, Whale Channel, Chatham Sound	O_2	MEDS # 31AC17660 NODC # 31AC51766

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
64-0011	WHITETHROAT, UBC	June 4,14	Temperature	Reversing Thermometer	[±.02,.03C°]	3	Dixon Entrance	O_2, Secchi	IOUBC (1965) NODC # 18WH50960
			Salinity	Salinometer	±.003,[.02]^{o}/oo				
64-0012	EHKOLI, POG	Oct.16-28	Temperature	Reversing Thermometer	[±.02,.03C°]	3	Fisher Channel, Cousins Inlet, Douglas Channel, Kitimat Arm, Prince Rupert Harbour	Secchi, O_2, Hourly Wind Data, pH Barometric Pressure, Sea Conditions	Waldichuk et al. (1968)
			Salinity	Salinometer	[±.01,.02^{o}/oo]				
			Current	Chesapeake Bay Drag	[±10cm/s]				
			Current profiles	Ekman Meter	?				
64-0018	VELELLA, POG	Apr.4-June 9	Water level	Foxboro	?	3	Burke Channel, N.Bentinck Arm	Zooplankton	Dodimead and Herlinveaux (1968) MEDS WL Stn # 8873, 8928, 8935
			Current	Drogues					
			Current profiles	Savonius-Rotor					
			Temperature	CTD					
			Salinity	"In situ" and On-board Salinometer	±0.1, ±0.01^{o}/oo				
64-0020	CHS	May 22-Sept.26	Water level	Ottboro, Foxboro	?	3	Hecate Strait, Chatham Sound, Observatory Inlet		MEDS WL Stn# 9306, 9333, 9425, 9450, 9940
64-0022	CHS	June 1,1964-continuing	Water level	?	?	3	Hecate Strait, Skidegate Channel		MEDS WL Stn# 9850
64-0023	CHS	May 1,1964-June 30,1967	Water level	?	?	3	N.Bentinck Arm		MEDS WL Stn# 8937
65-0011	ACONA, (U.S.)	Jan.10-Oct.1	Temperature Salinity	?	?	2	Whale Channel, Ogden Channel, Fitz Hugh Sound	O_2,SiO_3	MEDS # 31AC17640 NODC # 31AC51764
65-0012	ENDEAVOUR, UBC	Aug.1-15	Temperature	BT? Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Queen Charlotte Sound, Dixon Entrance	Secchi, O_2	IOUBC (1966) Pickard (1967) MEDS # 181365007 NODC # 18EN50972
			Salinity	Salinometer	?, ±0.02^{o}/oo				
65-0018	CHS	July 10,1965-Sep.23,1966	Water level	?, Ottboro	?	3	Portland Inlet, Observatory Inlet, Alice Arm		MEDS WL Stn# 9418, 9443, 9448

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
65-0019	CHS	May 22- Sep.24	Water level	Ottboro (pressure)	?	3	Chatham Sound		MEDS WL Stn# 9306
65-0021	VELELLA, POG	Apr.19- June 7	Temperature Salinity	"In-Situ" Salinometer	? ?, ±0.1°/oo	3	N.Bentinck Arm, Burke Channel	Zooplankton	Dodimead and Herlinveaux (1968)
66-0013	ENDEAVOUR, UBC	May 12-16	Temperature Salinity	Bucket Thermometer BT Reversing Thermometer Salinometer (Auto lab extended range model)	, ±0.1C° , ±0.1C° , ±0.02C° ?, ±0.02°/oo	3	Burke Channel, Dean Channel, Gardner Channel, Douglas Channel, Portland Inlet, Observatory Inlet, Hastings Arm	Secchi, O_2, Wind, Pressure, Sea State, Turbidity	IOUBC (1967) Pickard (1967) MEDS # 181366007 NODC # 18EN50977
66-0021	CHS	May 12- Sep.14	Water level	Ottboro	?	3	Chatham Sound		MEDS WL Stn# 9310, 9315
66-0022	CANADIAN NO.1, G.B. REED, POG	July 7- Aug. 23	Temperature Salinity (Surface)	BT ?	[±.2,.2C°] ?	2	Dixon Entrance, Hecate Strait, Queen Charlotte Sound	Primary Productivity	Dodimead (1968)
66-0023	VELELLA, (MELIBE, NOCTILUCA, INVESTIGATOR, and KNIGHT), POG	Apr.1- May 29	Temperature Salinity Current profiles Drift	CTD CTD Savonius-Rotor Drogues	?	2	Burke Channel System	Turbidity	Herlinveaux (1973b)
67-0008	PARRY, POG,CHS	July 10- Aug.7	Temperature Salinity Current(CHS)	BT Reversing Thermometer RS5-3 RS5-3 Salinometer Drag, Ekman Meter	[±.2,.2C°] [±.02,.03C°] ±.5,?C° ±.3,1°/oo [±.01,.02°/oo] [±10cm/s] ?	3 2	Prince Rupert Harbour	Secchi, O_2	Waldichuk et al. (1968)
67-0009	A.P. KNIGHT, POG	Sep.27-28	Temperature Salinity	BT Reversing Thermometer RS5-3 RS5-3 Salinometer	[±.2,.2C°] [±.02,.03C°] ±.5,?C° ±.3,1°/oo [±.01,.02°/oo]	3	Kitimat Arm, Douglas Channel	Secchi, O_2, pH	Waldichuk et al. (1968)

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Date rating number	Area	Concurrent measurements	Source or reference
67-0014	Eurocan Pulp & Paper Co. Ltd.	July 9-11	Temperature Salinity	? ?	? ?	2	Kitimat Arm	O_2	King and Koistinen (1967)
67-0022	ENDEAVOUR, POG	Sep.18-27	Temperature Salinity	Bisset-Berman 9006 STD	±.02,.04C° ±.02,.04°/oo	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Nitrates, O_2, Silicates, Phosphates	Dodimead (1985 in prep.) MEDS # 180267008 NODC # 50190
67-0023	VELELLA, INVESTIGATOR, A.P. KNIGHT, POG	Apr.1-June 8	Current Drift Current Temperature Salinity Water level	Drift Cards, Drogues Neyrpic Meter CTD CTD	?	2	Burke Channel, North and South Bentinck Arm, Fisher Channel	Meteorological Data, Turbidity, O_2	Herlinveaux (1967,1973a,b)
67-0024	CHS	May 22-Aug.29	Water level	?,Ottboro,Foxboro	?	3	Dixon Entrance, Hecate Strait, Chatham Sound		MEDS WL Stn# 9060, 9325, 9342, 9344, 9343, 9360, 9391
67-0026	T.G. THOMPSON, (U.S.)	Feb.14	Temperature Salinity	?	?	2	Dixon Entrance	Si, N_3	NODC # 31TT51191
68-0011A	VECTOR, UBC	May 27	Temperature Salinity	Reversing Thermometer Salinometer	[±.02,.03C°] ±.003,[.02]°/oo	3	Belize Inlet, Seymour Inlet	O_2	IOUBC (1969) MEDS # 181368012 NODC # 18VT50996
68-0011B	VECTOR, UBC	July 14-17	Temperature Salinity	Reversing Thermometer Salinometer	[±.02,.03C°] ±.003,[.02]°/oo	3	Belize Inlet, Seymour Inlet	Secchi, O_2	IOUBC (1969) MEDS # 181368017 NODC # 18VT51001
68-0012	CEDARWOOD, POG?	Sept. 19-20	Temperature Salinity	?	?	2	Dixon Entrance	O_2	NODC # 31CD51497
68-0022	ENDEAVOUR, POG	Apr.22-28	Temperature Salinity	Bissett-Berman 9006 STD	±.02,.04C° ±.02,.04°/oo	3	Queen Charlotte Sound		Dodimead (1985 in prep.) MEDS # 180268006 NODC # 18EN50197
68-0024	ENDEAVOUR, POG	Oct.9-13	Temperature Salinity	Bissett-Berman 9006 STD	±.02,.04C° ±.02,.04°/oo	3	Queen Charlotte Sound		Dodimead (1985 in prep.) MEDS # 180268008 NODC # 18EN50198
68-0025	SEDCO 135F Drilling Rig	Apr.22-Oct.13	Current	Hydroproducts Meter	?	2	Hecate Strait	Meteorological Data	Herlinveaux (1980)

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
68-0026	SEDCO 135F Drilling Rig, DREP	June 1,1968- Apr.18,1969	Wave Measurements	Pressure Transducer	?	3	Hecate Strait		Hafer (1970)
68-0027	CHS	May 30- Aug.26	Water level	Foxboro	?	3	Queen Charlotte Sound		MEDS WL Stn# 8981
69-0018	VECTOR, UBC	June 1-3	Temperature	Reversing Thermometer	[±.02,.03C°]	3	Queen Charlotte Sound, Queen Charlotte Strait, Hecate Strait	Secchi, O_2	IOUBC (1970), MEDS # 181369012 NODC # 18VT51017
			Salinity	Salinometer	±.003,[.02°/oo]				
69-0030	LAYMORE, POG	Apr.27-30	Temperature Salinity	Bissett-Berman 9006 STD	±.02,.04C° ±.02,.04°/oo	3	Queen Charlotte Sound		Dodimead (1985, in prep.) MEDS # 180269020
69-0031	ENDEAVOUR, POG	Oct.1-16	Temperature Salinity	Bissett-Berman 9006 STD	±.02,.04C° ±.02,.04°/oo	3	Queen Charlotte Sound		Dodimead (1985, in prep.) MEDS # 180269021
69-0032	CHS	July 1-16	Water level	Foxboro (pressure)	?	3	Queen Charlotte Sound		MEDS WL Stn# 9060
69-0033	CHS	Aug.15- Sep.29	Water level	Foxboro (pressure)	?	3	Chatham Sound		MEDS WL Stn# 9391
69-0036	Dept. of Fisheries	March	Current	Drogues	?	2	N. Bentinck Arm		Kussat (1969)
70-0020A	VECTOR, UBC	May 24-26	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]		Queen Charlotte Strait	Secchi, O_2	IOUBC (1971) MEDS # 181370010 NODC # 18VT51028
			Salinity	Salinometer	?, ±0.02°/oo				
70-0020B	VECTOR, UBC	June 21-24	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Queen Charlotte Strait, Queen Charlotte Sound, Hecate Strait	Secchi, O_2	IOUBC (1971) MEDS # 181370012 NODC # 18VT51029
			Salinity	Salinometer	?, ±0.02°/oo				
70-0020C	VECTOR, UBC	July 25-27	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,.03C°]	3	Queen Charlotte Sound	Secchi, O_2	IOUBC (1971) MEDS # 181370014 NODC # 18VT51030
			Salinity	Salinometer	?, ±0.02°/oo				

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
70-0031	LAYMORE, POG	Mar.5-15	Temperature Salinity Temperature Salinity	Bissett-Berman 9006 STD Reversing Thermometer Salinometer?	±.02,.04C° ±.02,.04°/oo [±.02,.03C°] [±.01,.02°/oo]	3	Queen Charlotte Sound		Dodimead (1985 in prep.) MEDS # 180270012
70-0032	CHS	June 1-Sept.	Water level	?,Foxboro (pressure)	?	3	Chatham Sound		MEDS WL Stn# 9327, 9391
70-0033	Transport Canada Light Station at Egg Island	Mar.10,1970-Present	Temperature Salinity	Thermometer 1970-June 1971, Salinometer July 1,1970-Present, Hydrometer	?, ±0.2C° ?, ±0.02°/oo ?, ±0.3°/oo	3	Queen Charlotte Sound		Giovando (pers. comm.)
70-0037	Ker, Priestman, Keenan & Assoc. Ltd. for Canadian Cellulose	?	Current	?	?	2	Porpoise Harbour		Ker, Priestman, Keenan & Assoc. Ltd. (1970)
71-0019A	ENDEAVOUR, UBC	Feb.11	Temperature Salinity	Reversing Thermometer Salinometer	[±.02,.03C°] ±.003,[.02]°/oo	3	Smith Inlet	Secchi, O_2	IOUBC (1972) MEDS # 181371005 NODC # 18EN51084
71-0019B	VECTOR, UBC	Aug.17-18	Temperature Salinity	Reversing Thermometer Salinometer	[±.02,.03C°] ±.003,[.02]°/oo	3	Smith Inlet, Belize Inlet	Secchi, O_2	IOUBC (1972) MEDS # 181371022 NODC # 18VT51101?
71-0028	Canadian Cellulose Ltd.	?	Temperature Salinity	?	?	2	Porpoise Harbour, Chatham Sound	Benthos, O_2, pH, Turbidity	Ho (1978)
71-0037	ENDEAVOUR, PEI	Mar.5-21	Temperature Salinity	Bissett-Berman 9006 STD	±.02,.04C° ±.02,.04°/oo	3	Queen Charlotte Sound		Dodimead (1985 in prep.) MEDS # 180271015
71-0038	CHS	June 29-Aug.28	Water level	Foxboro	?	3	Chatham Sound		MEDS WL Stn# 9333
71-0046	EPS	July	Temperature Salinity	Reversing Thermometer Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	N. Bentinck Arm	O_2	Goyette (pers. comm.)
72-0025	VECTOR, UBC	June 22-27	Temperature Salinity	BT Reversing Thermometer Salinometer	[±.2,.2C°] [±.02,.03C°] ±.003,[.02]°/oo	3	Burke Channel, Dean Channel, Roscoe Inlet, Mathieson Channel	Secchi, O_2	IOUBC (1973) MEDS # 181372016 NODC # 18VT1127

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
72-0026	LAYMORE, Fish. & Mar. Serv.; Pac. Env. Inst.	June, July, Aug.	Salinity	Salinometer	[±.01,.02°/oo]	3	Kitimat Harbour, Douglas Channel	F, Cl	Harbo et al. (1974)
72-0036B	LAYMORE, Nat'l Museum, Ottawa, Dept. Fish. & Oceans	Dec.3-4	Salinity (bottom)	Salinometer	[±.01,.02°/oo]	3	Cousins Inlet	Polychaetes, O_2	Fournier and Levings (1982)
72-0037	Canadian Cellulose Ltd.	?	Temperature Salinity	?	?	2	Porpoise Harbour, Chatham Sound	O_2, pH, Benthos	Ho (1978)
72-0043	?	Sep.28,1972-June 13,1973	Waves	?	?	2	Chatham Sound		MEDS (1978)
72-0044	CHS	July 7-Sep.27	Water level	?, Foxboro (pressure)	?	3	Chatham Sound, Masset Inlet		MEDS WL Stn# 9312, 9910 9940
73-0024	LAYMORE, Fish. & Mar. Serv.; Pac. Env. Inst.	June	Salinity (Interstitial only?)	Salinometer	[±.01,.02°/oo]	3	Kitimat Harbour	F, Cl	Harbo et al. (1974)
73-0029	LAYMORE, Museum Nat'l Sci., Ottawa	Apr.2	Temperature (surface)	Thermometer	?	2	Swanson Bay	Sediment, O_2, Polychaetes	Fournier and Levings (1982)
73-0031A	Pollution Control Branch, Victoria	Apr.9-11	Temperature Salinity Water level	Beckman RS5 Beckman RS5 ?	±0.05,0.5C° ±0.005,0.3°/oo	3	Prince Rupert, Chatham Sound	O_2, pH, NO_3, PO_4, NH_3, TOC, HEC, TR, Turbidity	Drinnan and Webster (1974)
73-0031B	Pollution Control Branch, Victoria	July 10-12	Temperature Salinity Water level	Beckman RS5 Beckman RS5 ?	±0.05,0.5C° ±0.005,0.3°/oo	3	Prince Rupert, Chatham Sound	O_2, pH, NO_3, PO_4, NH_3, TOC, HEC, Turbidity	Drinnan and Webster (1974)
73-0031C	Pollution Control Branch, Victoria	Oct.24-25	Temperature Salinity Water level	Beckman RS5 Beckman RS5 ?	±0.05,0.5C° ±0.005,0.3°/oo	3	Prince Rupert, Chatham Sound	O_2, pH, NO_3, PO_4, TOC, HEC, Turbidity	Drinnan and Webster (1974)
73-0032	Canadian Cellulose Ltd.	?	Temperature Salinity	?	?	2	Porpoise Harbour, Chatham Sound	O_2, pH, Turbidity, Benthos	Ho (1978)

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
73-0040	CHS	Feb.1-Dec.31	Water level	Hagenuk (pressure)	?	3	Dixon Entrance		MEDS WL Stn# 9964
73-0041	CHS	Aug.17,1973-June 25,1974	Water level	Ottboro, Foxboro	?	3	Skeena River		MEDS WL Stn# 9260
73-0042	CHS	Aug.17-Sep.19	Water level	Foxboro (pressure)	?	3	Chatham Sound		MEDS WL Stn# 9250
73-0047	Slaney & Co. Ltd.	March	Temperature Salinity	Hydrolab CT Meter	?	2	Prince Rupert		Slaney & Co. Ltd. (1973) (McDonald, pers. comm.)
73-0048	Dept. Fish. & Oceans	Summer	Current?	Drogues?	?	2	N. Bentinck Arm		Schouwenburg (pers. comm.)
73-0049	Dept. Fish. & Oceans	Oct.26	Temperature Salinity	?	?	2	N. Bentinck Arm	Biological	Levings (pers. comm.)
74-0040A	Env. Prot. Serv. (EPS), Mar. Studies Group	July 9	Temperature Salinity	Thermometer Refractometer	? [±.5,.5°/oo]	3	Porpoise Harbour	O_2, Taxonomy (Intertidal flora & fauna)	Packman (1977)
74-0040B	EPS, Marine Studies Group	Aug.6-9	Temperature Salinity	Thermometer Refractometer	? [±.5,.5°/oo]	3	Porpoise Harbour	O_2, Taxonomy (Intertidal flora & fauna)	Packman (1977)
74-0041	LAYMORE, Fish. & Oceans, Museum Nat'l Sci., Ottawa	Aug.1	Temperature Salinity (bottom)	Rev.Thermometer Salinometer	[±.02,.03C°] [±.01,.02°/oo]	2	Cousins Inlet	O_2, Sediment, Biota	Fournier & Levings (1982)
74-0042	Seatech II, Dobrocky for AMAX	June 20-30	Temperature Salinity	Reversing Thermometer ?	[±.02,.03C°] ?	2	Alice Arm, Hastings Arm	Sediment, Biota, Metals, O_2	Littlepage (1974, 1978) Krauel (1981)
74-0043	Dobrocky Seatech Ltd. for Northcoast Environmental Analysis Team	Oct.20-Nov.8	Temperature Salinity Current	Hydrolab Surveyor Model 6D Helle 4100	[±?,.2C°] [±?,.15°/oo] ?	3	Prince Rupert Harbour, Chatham Sound	O_2, Transmissivity, pH, Plankton, Benthos, Sediment	NEAT (1975)
74-0044	Canadian Cellulose Ltd.	Feb.-present	Temperature Salinity	Reversing Thermometer Titration	[±.02,.03C°] [±.02,.04°/oo]	2	Porpoise Harbour, Chatham Sound	O_2, pH, Benthos, Turbidity	Ho (1978)
74-0049	CHS	June 5-25	Water level	Foxboro (pressure)	?	3	Skeena River		MEDS WL Stn# 9266

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
74-0050A	EPS	June 11	Temperature Salinity	Reversing Thermometer Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Cousins Inlet	O_2, Sediment, Benthos	Packman et al. (1975)
74-0050B	EPS	Sept. 4	Temperature Salinity	Reversing Thermometer Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Cousins Inlet	O_2, Sediment, Benthos	Packman et al. (1975)
75-0061	EPS, Vancouver	June 24-25	Temperature Salinity	Reversing Thermometer Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Kitimat Arm	O_2, Trace Metals, Benthos, Sediment	Packman and Bradshaw (1977)
75-0063	LAYMORE, Museum Nat'l Sci., Ottawa	Nov.19	Temperature Salinity (bottom)	Reversing Thermometer Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Cousins Inlet, Swanson Bay, Coolidge Point, Ocean Falls Harbour	O_2, Sediment, Polychaetes	Fournier and Levings (1982)
75-0064	Dobrocky Seatech Ltd. for AMAX	July 18	Temperature Salinity	Bottle casts	?	2	Alice Arm	O_2,pH,Chl. a, Metal,Biota, Sediment	Littlepage (1978) Krauel (1981)
75-0069	G.B. REED, PBS	Apr.8-24 July 8-24 Oct.7-24	Temperature (bottom)	BT	[±.2,.2C°]	2	Hecate Strait	Groundfish	
75-0070	CHS	Mar.1,1975-Dec.31,1979	Water level	?	?	3	Dixon Entrance		MEDS WL Stn# 9964
76-0050	Dobrocky Seatech Ltd. for Dr. J. Littlepage	Aug. 17-18	Temperature Salinity Current	Reversing Thermometer Salinometer Aanderaa RCM-4	[±.02,.03C°] [±.01,.02°/oo] ±1 cm/s, ±5°θ	3	Alice Arm	O_2, Biota, Sediment	Littlepage (1978) Krauel (1981)
76-0056	?	Apr.19-July 23	Waves	?	?	2	Prince Rupert		MEDS (1978)
76-0062	Dobrocky Seatech for Dr. J. Littlepage	Sept.21-23	Current Temperature Salinity	Aanderaa RCM-4 Reversing Thermometer Salinometer	±1 cm/s, ±5°θ [±.02,.03C°] [±.01,.02°/oo]	3	Alice Arm	O_2	Webster (1977b)

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
76-0063	Dobrocky Seatech for Dr. J. Littlepage	Dec.9-10	Current	Aanderaa RCM-4	±1 cm/s, ±5°@	3	Alice Arm	O_2	Webster (1977b)
			Temperature	Reversing Thermometer	[±.02,.03C°]				
			Salinity	Salinometer	[±.01,.02°/oo]				
77-0042A	SEALION, Dobrocky Seatech Ltd.	July 8-Sep.27	Temperature	Aanderaa Thermistor Chain	±0.02,0.01-0.03C°	3	Kitimat Arm	Wind, O_2, Barometric Pressure, Sea State	Webster (1977a) Webster (1980a) Webster and Ford (1980)
			Temperature	Reversing Thermometer	±0.02,0.02C°				
			Temperature	Guildline 8705	±0.0005,0.01C°				
			Salinity	CTD	±0.001,0.02°/oo				
			Salinity	Salinometer	?, ±0.02°/oo				
			Current	Aanderaa RCM-4	?, ±1cm/s (speed), ±0.35,7.5° (direction)				
			Water level	Aanderaa TG3-A	±0.006,0.03 dbar				
77-0042B	SEALION, Dobrocky Seatech Ltd.	Sep.25-Dec.12	Temperature	Aanderaa Thermistor Chain	±0.02,0.01-0.03C°	3	Kitimat Arm	Wind, O_2, Barometric Pressure, Sea State	Webster (1977a) Webster (1980a) Webster and Ford (1980)
			Temperature	Reversing Thermometer	±0.02,0.02C°				
			Temperature	Guildline 8705	±0.0005,0.01C°				
			Salinity	CTD	±0.001,0.02°/oo				
			Salinity	Salinometer	?, ±0.02°/oo				
			Current	Aanderaa RCM-4	?, ±1cm/s (speed), ±0.35,7.5° (direction)				
			Water level	Aanderaa TG3-A	±0.006,0.03 dbar				
77-0042C	SEALION, Dobrocky Seatech Ltd.	Dec.5,1977-Mar.6,1978	Temperature	Aanderaa Thermistor Chain	±0.02,0.01-0.03C°	3	Kitimat Arm	Wind, O_2, Barometric Pressure, Sea State	Webster (1977a) Webster (1980a) Webster and Ford (1980)
			Temperature	Reversing Thermometer	±0.02,0.02C°				
			Temperature	Guildline 8705	±0.0005,0.01C°				
			Salinity	CTD	±0.001,0.02°/oo				
			Salinity	Salinometer	?, ±0.02°/oo				
			Current	Aanderaa RCM-4	?, ±1cm/s (speed), ±0.35,7.5° (direction)				
			Water level	Aanderaa TG3-A	±0.006,0.03 dbar				

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?-Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
77-0042D	**SEALION**, Dobrocky Seatech Ltd.	Mar.7-13, 1978;	Temperature	Aanderaa Thermistor Chain	±0.02,0.01-0.03C°	3	Kitimat Arm	Wind, O_2, Barometric Pressure, Sea State	Webster (1977a) Webster (1980a) Webster and Ford (1980)
			Temperature	Reversing Thermometer	±0.02,0.02C°				
		May 9-10, 1978(CTD)	Temperature	Guildline 8705	±0.0005,0.01C°				
			Salinity	CTD	±0.001,0.02°/oo				
			Salinity	Salinometer	?, ±0.02°/oo				
			Current	Aanderaa RCM-4	?, ±1cm/s (speed), ±0.35,7.5° (direction)				
			Water level	Aanderaa TG3-A	±0.006,0.03 dbar				
77-0042E	**SEALION**, Dobrocky Seatech Ltd.	June 8-13, 1978	Temperature	Reversing Thermometer	±0.02,0.02C°	3	Kitimat Arm	Wind, O_2, Barometric Pressure, Sea State	Webster (1977a) Webster (1980a) Webster and Ford (1980)
			Temperature	Guildline 8705	±0.0005,0.01C°				
			Salinity	CTD	±0.001,0.02°/oo				
			Salinity	Salinometer	?, ±0.02°/oo				
77-0043	**PARIZEAU**, IOS	Feb.4-16	Temperature	Reversing Thermometer	<0.01,±0.02C°	3	Kitimat Arm, Porpoise Harbour	Benthos, O_2, Petroleum Residue, NO_3, Mussels, SiO_3, Plankton, PO_4	Macdonald et al. (1978) Macdonald et al. (1983) Bornhold (1983)
				BT	[±.2, .2C°]				
			Salinity	Salinometer	±0.003,0.02°/oo				
77-0057A	**PARIZEAU**, IOS	May 17-22	Temperature	Guildline 8100, 8700 CTD	?, ±0.03C°	3	Queen Charlotte Sound	O_2, NO_3, PO_4, SiO_3, Bottom Sediments	Huggett et al. (1981) Thomson et al. (1981a) Thomson et al. (1981b) Thomson et al. (1980a) Thomson et al. (1980b) Thomson et al. (1980c) Thomson et al. (1980d)
				Reversing Thermometer	[±.02, .03C°]				
			Salinity	Guildline 8100, 8700 CTD	?, ±0.05°/oo				
				Salinometer	[±.01, .02°/oo]				
			Current	Aanderaa RCM-4	±1 cm/s,5° @				
			Water level	Applied Microsystems	?				
77-0057B	**ENDEAVOUR**, IOS	July 14-22	Temperature	Guildline 8100, 8700 CTD	?, ±0.03C°	3	Queen Charlotte Sound, Laredo Sound, Principe Channel, Caamano Channel	O_2, NO_3, PO_4, SiO_3	Huggett et al. (1981) Thomson et al. (1981a) Thomson et al. (1981b) Thomson et al. (1980a) Thomson et al. (1980b) Thomson et al. (1980c) Thomson et al. (1980d)
				Reversing Thermometer	[±.02,.03C°]				
			Salinity	Guildline 8100, 8700 CTD	?, ±0.05°/oo				
				Salinometer	[±.01,.02°/oo]				
			Current	Aanderaa RCM-4	±1 cm/s,5° @				

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
77-0057C	PARIZEAU, IOS	Sep.20-27	Temperature	Guildline 8100, 8700 CTD Reversing Thermometer	?, ±0.03C° [±.02,.03C°]	3	Queen Charlotte Sound, Laredo Sound, Principe Channel	O_2, NO_3, PO_4, SiO_3	Huggett et al. (1981) Thomson et al. (1981a) Thomson et al. (1981b) Thomson et al. (1980a) Thomson et al. (1980b) Thomson et al. (1980c) Thomson et al. (1980d)
			Salinity	Guildline 8100, 8700 CTD Salinometer	?, ±0.05^{o}/oo [±.01,.02^{o}/oo]				
77-0058	EPS	June	Temperature	Reversing Thermometer	[±.02,.03C°]	3	Porpoise Harbour	O_2	Packman (1979a)
			Salinity	Salinometer	[±.01,.02^{o}/oo]				
77-0059	EPS	June 13	Temperature	Reversing Thermometer	[±.02,.03C°]	3	Hastings Arm, Alice Arm		Goyette (pers. comm.)
			Salinity	Salinometer	[±.01,.02^{o}/oo]				
77-0064	?	Mar.10,1977? -Feb.27,1978	Waves	?	?	2	Kincolith		MEDS (1978)
77-0065	?	July 10,1977 -Mar.22,1978	Waves	?	?	2	Kitimat		MEDS (1978)
77-0066A	G.B. REED, PBS	July 13-19	Temperature	XBT	?, ±0.1C°		Queen Charlotte Sound	Shrimp	Ballantyne (1978a) Dodimead, Ballantyne and Douglas (1979a)
77-0066B	G.B. REED, PBS	Aug.24-Sep.8	Temperature	XBT BT	?, ±0.1C°		Queen Charlotte Sound	Groundfish	Ballantyne (1978a) Dodimead, Ballantyne and Douglas (1979a)
77-0067	CHS	Apr.25,1977-July 31,1978; Aug.19-Oct.31,1978	Water level	HWK float	?	3	Kitimat Arm		MEDS WL Stn# 9140
77-0068	CHS	June 21-Aug.30	Water level	Ottboro (pressure)	?	3	Hecate Strait		MEDS WL Stn# 9105
77-0076	Dobrocky Seatech Ltd. for Dr. J. Littlepage	Mar.10-11	Temperature	Reversing Thermometer	[±.02,.03C°]	3	Alice Arm	O_2	Webster (1977b)
			Salinity	Salinometer	[±.01,.02^{o}/oo]				
			Current	Aanderaa	±1 cm/s, ±5°@				

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?-Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
77-0077	Dobrocky Seatech Ltd. for Dr. J. Littlepage	June 15-17	Temperature	Reversing Thermometer	[±.02,.03C°]	3	Alice Arm	O_2	Webster (1977b)
			Salinity	Salinometer	[±.01,.02°/oo]				
			Current	Aanderaa	±1 cm/s,±5°θ				
77-0078	Dobrocky Seatech Ltd. for Dr. J. Littlepage	Sept. 19-20	Temperature	Reversing Thermometer	[±.02,.03C°]	3	Alice Arm	O_2	Webster (1977b)
			Salinity	Salinometer	[±.01,.02°/oo]				
77-0079	Assoc. Eng. Services	July 4-15	Temperature Salinity Current	Aanderaa RCM-4 Aanderaa RCM-4	±?,0.02C° ±?,0.1°/oo accuracy ±1 cm/s or 2% of speed, ±0.4°direction	3	Prince Rupert	Bottom Grab Samples	Assoc. Eng. Serv. (1977)
			Drift	Drogues	accuracy ±5 cm/s				
77-0080	Canadian Cellulose	?	Current	?	?	2	Porpoise Harbour		Simons (1977)
78-0028A	IMPERIAL TOFINO, UBC	Mar.13-20	Salinity	Salinometer-Guildline 8400	±0.003°/oo, ?	3	Dixon Entrance, Chatham Sound	Plankton	Dilke et al. (1979)
78-0028B	IMPERIAL TOFINO, UBC	July 24-Aug.3	Salinity	Salinometer-Guildline 8400	±0.003°/oo, ?	3	Hecate Strait, inlets	Plankton	Dilke et al. (1979)
78-0028C	IMPERIAL TOFINO, UBC	Aug.12-27	Temperature (surface)	Engine Intake Thermometer	?	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Chl.a, Plankton	Dilke et al. (1979)
			Salinity (surface)	Salinometer-Guildline 8400	±0.003°/oo, ?				
78-0028D	IMPERIAL TOFINO, UBC	Sep.11-27	Temperature (surface)	Engine Intake Thermometer	?	3	Queen Charlotte Sound, Hecate Strait	Chl.a, PO_4, NO_2, Plankton	Dilke et al. (1979)
			Salinity (surface)	Salinometer-Guildline 8400	±0.003°/oo, ?				
78-0028E	IMPERIAL TOFINO, UBC	Oct.18-26	Temperature (surface)	Engine Intake Thermometer	?	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Chl.a, PO_4, NO_2, Plankton	Dilke et al. (1979)
			Salinity (surface)	Salinometer-Guildline 8400	±0.003°/oo, ?				
78-0028F	IMPERIAL TOFINO, UBC	Jan.2-7, 1979	Temperature (surface)	Engine Intake Thermometer	?	3	Queen Charlotte Sound, Hecate Strait	Chl.a, PO_4, NO_2, Plankton	Dilke et al. (1979)
			Salinity (surface)	Salinometer-Guildline 8400	±0.003°/oo, ?				

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
78-0028G	IMPERIAL TOFINO, UBC	Mar.30,1979- Apr.8,1979	Temperature	Bucket Thermometer, XBT	? [±.2,.2C°]	3	Queen Charlotte Sound, Hecate Strait	Chl.a, PO_4, NO_2, Plankton	Dilke et al. (1979)
			Salinity (surface)	Salinometer-Guildline 8400	±0.003°/oo, ?				
78-0029A	SEALION, Seakem for IOS	June 21-27	Temperature Salinity	AMS CTD-12	±.02,.2C° ±.02,.2°/oo	3	Kitimat, Douglas Channel	Plankton, O_2, PO_4, SiO_3, NO_3, Sediment, Biota, Hydrocarbons	Erickson et al. (1979) Erickson (1979)
78-0029B	SEALION, Seakem for IOS	Oct.20-25	Temperature	Reversing Thermometer	±.01,.02C°	3	Kitimat, Douglas Channel	Plankton, O_2, PO_4, SiO_3, NO_3, Sediment, Biota, Hydrocarbons	Erickson et al. (1979) Erickson (1979)
			Salinity	Salinometer	±.003,.02°/oo				
78-0029C	SEALION, Seakem for IOS	Feb.8-13, 1979	Temperature	Reversing Thermometer	±.01,.02C°	3	Kitimat, Douglas Channel	Plankton, O_2, PO_4, SiO_3, NO_3, Sediment, Biota, Hydrocarbons	Erickson et al. (1979) Erickson (1979)
			Salinity	Salinometer	±.003,.02°/oo				
78-0037	EPS	July 13	Temperature	Reversing Thermometer	[±.02,.03C°]	3	Porpoise Harbour, Wainwright Basin	O_2	Packman (1979a)
			Salinity	Salinometer	[±.01,.02°/oo]				
78-0047	ARCTIC HARVESTER, PBS	Jan.25- Feb.2	Temperature	XBT	?, ±0.1C°	3	Queen Charlotte Sound	Fish Stocks	Dodimead, Ballantyne and Douglas (1979b)
78-0048	G.B. REED PBS	Jan.26-30	Temperature	XBT	?, ±0.1C°	3	Queen Charlotte Sound	Fish Stocks	Dodimead, Ballantyne and Douglas (1979b)
78-0049	ARCTIC HARVESTER, PBS	Mar.15-27	Temperature	XBT, Reversing Thermometer	?, ±0.1C° [±.02,.03C°]	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Pollock Survey	Dodimead, Ballantyne and Douglas (1979b)
			Salinity	Salinometer	[±.01,.02°/oo]				
78-0050	ARCTIC HARVESTER, PBS	May 25-30	Temperature	XBT, BT	?, ±0.1C°	3	Queen Charlotte Sound	Rockfish Survey	Dodimead, Ballantyne and Douglas (1979b)
78-0051	ARCTIC HARVESTER, PBS	July 9-10	Temperature	BT Reversing Thermometer	[±.2,.2C°] [±.02,03C°]	3	Queen Charlotte Sound	Groundfish	Dodimead, Ballantyne and Douglas (1979b)
78-0052	G.B. REED, M.V. NEMESIS, PBS	July 5-25	Temperature	XBT	?, ±0.1C°	3	Queen Charlotte Sound, Hecate Strait, Dixon	Pollock	Dodimead, Ballantyne and Douglas (1979b)

Entrance

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?-Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
78-0053	G.B. REED, PBS	July 29-Aug.1	Temperature Salinity	XBT, BT Reversing Thermometer Salinometer	?, ±0.1C° [±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Dover Sole	Dodimead, Ballantyne and Douglas (1979b)
78-0054	G.B. REED, PBS	Aug.30-Sep.18	Temperature Salinity	XBT BT Reversing Thermometer Salinometer	?, ±0.1C° [±.2,.2C°] [±.02,.03C°] [±.01,.02°/oo]	3	Queen Charlotte Sound, Hecate Strait	Groundfish	Dodimead, Ballantyne and Douglas (1979b)
78-0055	ARCTIC HARVESTER, PBS	Sep.22-24	Temperature	XBT	?, ±0.1C°	3	Queen Charlotte Sound, Hecate Strait	Pollock	Dodimead, Ballantyne and Douglas (1979b)
78-0056	G.B. REED, M.V. BLUE WATERS, PBS	Oct.4-21	Temperature	XBT	?, ±0.1C°	3	Queen Charlotte Sound	Rockfish	Dodimead, Ballantyne and Douglas (1979b)
78-0057	CHS	July 19-Aug.26	Water level	Ottboro (pressure)	?	3	Masset Inlet		MEDS WL Stn# 9920, 9930
79-0036A	IMPERIAL TOFINO Ship-of-Opportunity Programme	May 8-17	Temperature Salinity (3 m)	XBT, Modified Bucket Thermometer(sf), Engine Intake Thermometer Salinometer-Guildline 8400	±0.1C° ±0.003°/oo, ?	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Plankton, SiO_3, Chl.a, NO_3, NO_2, PO_4	Perry et al. (1981)
79-0036B	IMPERIAL TOFINO Ship-of-Opportunity Programme	June 19-July 1	Temperature Salinity (3 m)	XBT, Modified Bucket Thermometer(sf), Engine Intake Thermometer Salinometer-Guildline 8400	±0.1C° ±0.003°/oo, ?	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Plankton, SiO_3, Chl.a, NO_3, NO_2, PO_4	Perry et al. (1981)
79-0036C	IMPERIAL TOFINO Ship-of-Opportunity Programme	July 13-29	Temperature Salinity (3 m)	XBT, Modified Bucket Thermometer(sf), Engine Intake Thermometer Salinometer-Guildline 8400	±0.1C° ±0.003°/oo, ?	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Plankton, SiO_3, Chl.a, NO_3, NO_2, PO_4	Perry et al. (1981)

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
79-0036D	IMPERIAL TOFINO Ship-of-Opportunity Programme	Jan.30-Feb.9,1980	Temperature (surface)	Modified Bucket Thermometer (sf), Engine Intake Thermometer		3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Plankton, SiO_3, Chl.a, NO_3, NO_2, PO_4	Perry et al. (1981)
			Salinity (3 m)	Salinometer-Guildline 8400	±0.003°/oo, ?				
79-0036E	IMPERIAL TOFINO Ship-of-Opportunity Programme	Apr.10-17, 1980	Temperature (surface)	Modified Bucket Thermometer (sf), Engine Intake Thermometer	±0.1C°	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Plankton, SiO_3, Chl.a, NO_3, NO_2, PO_4	Perry et al. (1981)
			Salinity (3 m)	Salinometer-Guildline 8400	±0.003°/oo, ?				
79-0036F	IMPERIAL TOFINO Ship-of-Opportunity Programme	May 30-June 7,1980	Temperature	XBT, Modified Bucket Thermometer(sf), Engine Intake Thermometer	±0.1C°	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Plankton, SiO_3, Chl.a, NO_3, NO_2, PO_4	Perry et al. (1981)
			Salinity (3 m)	Salinometer-Guildline 8400	±0.003°/oo, ?				
79-0036G	IMPERIAL TOFINO Ship-of-Opportunity Programme	Aug.,1980	Temperature	XBT, Modified Bucket Thermometer(sf), Engine Intake Thermometer	±0.1C°	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Plankton, SiO_3, Chl.a, NO_3, NO_2, PO_4	Perry et al. (1981)
			Salinity (3 m)	Salinometer-Guildline 8400	±0.003°/oo, ?				
79-0051	EPS	June 3-10	Temperature Salinity	Plessey 9400 CTD	? ?	2	Porpoise Harbour, Tuck Inlet, Prince Rupert Harbour	O_2, Sediment, Biota	Packman (1979a,b) Pomeroy (1983)
79-0052	ARCTIC HARVESTER, PBS	Jan.27-Feb.6	Temperature	XBT	?, ±0.1C°	3	Hecate Strait, Dixon Entrance		Dodimead and Ballantyne (1980)
79-0053	M.V. SCOTIA BAY PBS	Mar.13-29	Temperature	XBT	?, ±0.1C°	3	Hecate Strait	Pollock	Dodimead and Ballantyne (1980)
79-0056A	G.B. REED, PBS and Geol. Survey of Canada	June 27-July 12	Temperature	XBT, Reversing Thermometer	?, ±0.1C° [±.02,.03C°]	3	Queen Charlotte Sound, Hecate Strait	Groundfish, Sediment	Dodimead and Ballantyne (1980)
			Salinity	Salinometer	[±.01,.02°/oo]				

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
79-0056B	G.B. REED, PBS and Geol. Survey of Canada	Sep.7-20	Temperature	XBT, Reversing Thermometer	?, ±0.1C° [±.02,.03C°]	3	Queen Charlotte Sound, Hecate Strait	Groundfish, Sediment	Dodimead and Ballantyne (1980)
			Salinity	Salinometer	[±.01,.02°/oo]				
79-0059	G.B. REED, PBS	May 14-16	Temperature	XBT	?, ±0.1C°	3	Queen Charlotte Sound	Shrimp	Dodimead and Ballantyne (1980)
79-0060	CHS	June 16-Aug.21	Water level	Ottboro (pressure)	?	3	Queen Charlotte Sound, Masset Inlet		MEDS WL Stn# 9056, 9063, 9067, 9823, 9920
79-0065	OCEAN KING, Tides and Currents, IOS	Apr.4-Dec.3	Water level	?	?	3	Cape St. James (Hecate Strait)		MEDS WL Stn # 9710
79-0066	PANDORA, Tides and Currents, IOS	August	Temperature Salinity Current profiles	InterOcean CTD Marsh-McBirney	? ?	2	Mouth of Skeena River		A. Ages (pers.comm.)
80-0042A	Department of Fisheries and Oceans, Beak Consultants Ltd.	Apr.22-June 29	Temperature Salinity Current Drift	Applied Microsystems CTD Endeco 110 Drogues	?, ±0.02C° ?, ±0.03°/oo ±0.07cm/s, ±10°		Masset Inlet, Yakoun River and Estuary	Plankton, Fish, NO_3, NO_2, NH_3, Chl.a, O_2, Sediment	Beak (1981) Stockner & Levings (1982)
80-0043A	VECTOR, EPS	May 22-26	Temperature	Reversing Thermometer	[±.02,.03C°]	3	Alice Arm	Sediment, Biota	Krauel (1981) Goyette (pers. comm.)
			Salinity	Salinometer	[±.01,.02°/oo]				
80-0043B	VECTOR, EPS	Oct. 8-13	Temperature	Reversing Thermometer	[±.02,.03C°]	3	Alice Arm	Biota	Krauel (1981) Goyette (pers. comm.)
			Salinity	Salinometer	[±.01,.02°/oo]				
80-0051A	G.B. REED, PBS	Jan.15-22	Temperature	XBT Reversing Thermometer Bissett-Berman STD	?, ±0.1C° [±.02,.03C°] ?	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Ichthyoplankton	Mason et al. (1981)
			Salinity	Bissett-Berman STD Salinometer	? [±.01,.02°/oo]				
80-0051B	G.B. REED, PBS	Feb.13-20	Temperature	XBT Reversing Thermometer Bissett-Berman STD	?, ±0.1C° [±.02,.03C°] ?	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Ichthyoplankton	Mason et al. (1981)
			Salinity	Bissett-Berman STD Salinometer	? [±.01,.02°/oo]				

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measure-ments	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
80-0051C	G.B. REED, PBS	Mar.12-20	Temperature Salinity	XBT Reversing Thermometer Bissett-Berman STD Bissett-Berman STD Salinometer	?,±0.1C° [±.02,.03C°] ? ? [±.01,.02°/oo]	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Ichthyoplankton	Mason et al. (1981)
80-0051D	G.B. REED, PBS	Apr.15-23	Temperature Salinity	XBT Reversing Thermometer Bissett-Berman STD Bissett-Berman STD Salinometer	?, ±0.1C° [±.02,.03C°] ? ? [±.01,.02°/oo]	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance	Ichthyoplankton	Mason et al. (1981)
80-0052	EPS	Aug.20-21	Temperature Salinity	Plessey 9400 CTD	? ?	2	Porpoise Channel and Harbour, Wainwright Basin	O_2	Pomeroy (1983)
80-0053	CHS	Apr.28-Sept.8	Water level	Ottboro (pressure)	?	3	Dixon Entrance, Masset Inlet		MEDS WL# 9910, 9920, 9940, 9950
80-0055B	G.B. REED, PBS	May 7-21	Temperature	XBT	?,±0.1C°	2	Queen Charlotte Sound	Fisheries Research	Dodimead and Ballantyne (1984)
81-0018	PARIZEAU, IOS (Coastal Zone Cruise 2)	Dec.3-7	Temperature Salinity Currents Water level	Guildline 8700 CTD Aanderaa, Neil Brown AML 750A Aanderaa TG-3A	±.003, .01C° ±.005, .01°/oo ±1cm/s or 2% speed @ ? ? ?	3	Alice Arm, Observatory Inlet	O_2, PO_4, SiO_3, NO_3	Macdonald et al. (1984a)
81-0021A	Dome Petroleum (Seakem and ESL Consultants)	May 2-June 25	Temperature Salinity Current Water level Drift	Applied Microsystems CTD-12 Aanderaa RCM-4 Aanderaa TG4-A Drogues	±0.01,0.03C° ±0.03,0.07°/oo ±1cm/s or 2% speed @ ±0.0003,0.01 dbar ?	3	Port Simpson Bay (Chatham Sound)	O_2, Wind	de Lange Boom et al. (1982)
81-0021B	Dome Petroleum (Seakem and ESL Consultants)	Aug.25	Temperature Salinity	Applied Microsystems CTD-12	±0.01,0.03C° ±0.03,0.07°/oo	3	Port Simpson Bay (Chatham Sound)	O_2, Wind	de Lange Boom et al. (1982)
81-0021C	Dome Petroleum (Seakem and ESL Consultants)	Nov.26	Temperature Salinity	Applied Microsystems CTD-12	±0.01,0.03C° ±0.03,0.07°/oo	3	Port Simpson Bay (Chatham Sound)	O_2, Wind	de Lange Boom et al. (1982)

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
81-0021D	Dome Petroleum (Seakem and ESL Consultants)	Jan.26,1982	Temperature Salinity	Applied Microsystems CTD-12	±0.01,0.03C° ±0.03,0.07°/oo	3	Port Simpson Bay (Chatham Sound)	O_2, Wind	de Lange Boom et al. (1982)
81-0021E	MEDS/Seakem	May 1,1981-Mar.2,1982	Waves	?	?	2	Chatham Sound		CAMDI (MEDS Stn# 126)
81-0022	ENDEAVOUR, EPS, Vancouver	Aug.4-5	Temperature Salinity	Reversing Thermometer Auto Sal 8400 Salinometer	[±.02, .03C°] [±.01, .02°/oo]	3	Chatham Sound, Port Simpson Bay	O_2, PO_4, NO_3, NO_2, NH_3, Chl.a, Sediment,Metals, Benthos	Pomeroy (1982)
81-0023	VECTOR, IOS	July 8-12	Temperature Salinity	CTD	?	2	Kitimat Arm	Chl.a, Clay Mineralogy, Particle Size & Concentration, Sediment (traps & cores)	Macdonald et al. (1981)
81-0024A	VECTOR, IOS (Coastal Group)	May 20-23	Temperature Salinity	Guildline 8700 CTD	[±.005,.01C°] [±.005,.02°/oo]	2	Portland Inlet, Observatory Inlet,Alice Arm	Biota,Minerals (EPS)	Ford and Nicoll (1983)
81-0024B	VECTOR, IOS (Coastal Group)	Oct.16-19	Temperature Salinity	CTD	?	2	Portland Inlet, Alice Arm, Hastings Arm	Trace Metals, O_2, Biota, (species & distribution)	
81-0050	EPS, Vancouver	Aug. 3-4	Temperature Salinity	Reversing Thermometer Salinometer	[±.02, .03C°] [±.01, .02°/oo]	3	Porpoise Channel, Porpoise Harbour, Wainwright Basin	O_2	Pomeroy (1983)
81-0053C	G.B. REED, PBS	May 6-20	Temperature	XBT	[?,±0.2C°]	3	Queen Charlotte Sound	Fisheries Research	Dodimead and Ballantyne (1984)
81-0053D	TENACIOUS, PBS	June 7-16	Temperature	XBT	[?,±0.2C°]	3	Hecate Strait	Fisheries Research	Dodimead and Ballantyne (1984)
81-0053E	G.B. REED, PBS	July 5-16	Temperature	XBT	[?,±0.2C°]	3	Queen Charlotte Sound	Fisheries Research	Dodimead and Ballantyne (1984)
81-0053F	ARCTIC OCEAN, PBS	Aug. 7-18	Temperature	XBT	[?,±0.2C°]	3	Queen Charlotte Sound, Hecate Strait	Fisheries Research	Dodimead and Ballantyne (1984)

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?-Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
81-0053G	G.B. REED, PBS	Aug. 12-25	Temperature	XBT	[?,±0.2C°]	3	Queen Charlotte Sound, Hecate Strait	Fisheries Research	Dodimead and Ballantyne (1984)
81-0054	VECTOR, BASTION CITY, RICHARDSON, IOS	June 23-Sept. 12	Temperature Salinity	Guildline CTD, Plessey 9400 CTD	?, +.02C° [±.005,.02°/oo	3	Alice Arm	Transmissivity	Nicoll and Stucchi (1982) Rambold and Stucchi (1983)
81-0055	ENDEAVOUR, IOS (Tides and Currents)	Feb.6-Sept.11	Water level	Aanderaa, Applied Microsystems	?	3	Hecate Strait, Dixon Entrance		IOS (cruise plan)
81-0056A	ENDEAVOUR, IOS (Tides and Currents)	Sept.7-20	Water level	Applied Microsystems	?	3	Hecate Strait		MEDS WL Stn # 9710
81-0057	Dobrocky Seatech for Amax	Apr.11-12 Apr.11-July 27	Temperature Salinity Current	Guildline 8705 CTD Aanderaa RCM-4	±.001,.005C°@ ±.002@,[.02]°/oo ±1 cm/s or 2% speed @	3	Alice Arm	Suspended Sediment, Dissolved Oxygen, Metal Concentrates in Sediment & Biota	Amax (1981)
81-0058	Dobrocky Seatech for Amax	July 27 July 29-Sept.25	Temperature Salinity Current Water level	Guildline 8705 CTD Aanderaa RCM-4 Aanderaa TG3A	±.001,.005C°@ ±.002@,[.02]°/oo ±1 cm/s or 2% speed @ ±.3,3 cm@	3	Alice Arm	Suspended Sediment, Dissolved Oxygen, Metal Concentrates in Sediment & Biota	Amax (1981)
81-0059	Dobrocky Seatech for Amax	Sept.24 Sept.27-Nov.22	Temperature Salinity Current	Guildline 8705 CTD Aanderaa RCM-4	±.001,.005C°@ ±.002@,[.02]°/oo ±1 cm/s or 2% speed @	3	Alice Arm	Suspended Sediment, Dissolved Oxygen, Metal Concentrates in Sediment & Biota	Amax (1981)
81-0060	Dobrocky Seatech for Amax	Nov.21-22 Nov.24,1981-Jan.17,1982	Temperature Salinity Current Water level	Guildline 8705 CTD Aanderaa RCM-4 Aanderaa TG3A	±.001,.005C°@ ±.002@,[.02]°/oo ±1 cm/s or 2% speed @ ±.3,3 cm@	3	Alice Arm	Suspended Sediment, Dissolved Oxygen, Metal Concentrates in Sediment & Biota	Amax (1981)
81-0061	Dobrocky Seatech for Amax	May 23	Temperature Salinity Water level	Guildline 8705 CTD Aanderaa TG3A	±.001,.005C°@ ±.002@,[.02]°/oo ±.3,3 cm@	3	Alice Arm	Suspended Sediment, Dissolved Oxygen, Metal Concentrates in Sediment & Biota	Amax (1981)

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
81-0062	Dobrocky Seatech for Amax	June 28	Temperature Salinity	Guildline 8705 CTD	±.001,.005C°@ ±.002@,[.02]°/oo	3	Alice Arm	Suspended Sediment, Dissolved Oxygen, Metal Concentrates in Sediment & Biota	Amax (1981)
81-0063	Dobrocky Seatech for Amax	Aug.27	Temperature Salinity	Guildline 8705 CTD	±.001,.005C°@ ±.002@,[.02]°/oo	3	Alice Arm	Suspended Sediment, Dissolved Oxygen, Metal Concentrates in Sediment & Biota	Amax (1981)
81-0064	Dobrocky Seatech for Amax	Oct.27	Temperature Salinity	Guildline 8705 CTD	±.001,.005C°@ ±.002@,[.02]°/oo	3	Alice Arm	Suspended Sediment, Dissolved Oxygen, Metal Concentrates in Sediment & Biota	Amax (1981)
81-0065	Dobrocky Seatech for Amax	Dec.19 Dec.15,1981-Jan.20,1982	Temperature Salinity Water level	Guildline 8705 CTD Aanderaa TG3A	±.001,.005C°@ ±.002@,[.02]°/oo ±.3,3 cm@	3	Alice Arm	Suspended Sediment, Dissolved Oxygen, Metal Concentrates in Sediment & Biota	Amax (1981)
81-0066	EPS	May 21-June 21	Temperature Salinity	Plessey 9400 CTD	[±.001,.02C°] [±.001,.03°/oo]	3	Alice Arm	Transmissivity, Residue Analysis, Sediment Trace Metals, Biota (tissue metal content, species composition & abundance)	Goyette (pers. comm.)
81-0067	EPS	May 6	Temperature Salinity	Plessey 9400 CTD	[±.001,.02C°] [±.001,.03°/oo]	3	Alice Arm	Transmissivity, Residue Analysis, Sediment Trace Metals, Biota (tissue metal content, species composition & abundance)	Goyette (pers. comm.)

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
81-0068	EPS	Oct.20-23	Temperature Salinity	Plessey 9400 CTD	[±.001,.02C°] [±.001,.03°/oo]	3	Alice Arm	Transmissivity, Residue Analysis, Sediment Trace Metals, Biota (tissue metal content, species composition & abundance)	Goyette (pers. comm.)
81-0069	PARIZEAU, IOS (Coastal & Tides & Currents) SUPERCODE	Sept.4,1981-Jan.31,1982	Current	Aanderaa	±1 cm/s or 2% speed @	3	Queen Charlotte Sound, Offshore Vancouver Island		Freeland et al. (1984)
82-0025A	ARRAWAC FREIGHTER, IOS	June	Salinity Temperature	AMS CTD-12	?	1	Alice Arm, Portland Inlet	Trace Metals	Stukas (1983)
82-0025B	ARRAWAC FREIGHTER, IOS	Oct.	Salinity Temperature	AMS CTD-12	?	3	Alice Arm, Portland Inlet	Trace Metals	Stukas (1983)
82-0034	PARIZEAU, IOS (Coastal Zone Cruise 03)	Jan.27-29 Jan.25-Mar.31	Temperature Salinity Current	Guildline 8700 CTD Aanderaa, Neil Brown	±.003, .01C° ±.005, .01°/oo ±1cm/s or 2% speed @	3	Alice Arm, Observatory Inlet, Queen Charlotte Sound	O_2, PO_4, SiO_3, NO_3, Transmissivity	Macdonald et al. (1984a) Freeland et al. (1984)
82-0036	VECTOR, IOS (Coastal Zone Cruise 05)	June 6-22 June 9-Sept.1	Temperature Salinity Current	Guildline 8700 CTD Neil Brown	±.003, .01C° ±.005, .01°/oo ?	3	Alice Arm, Observatory Inlet	O_2, PO_4, SiO_3, NO_3, Sediment	Macdonald et al. (1984a)
82-0037	PARIZEAU, IOS (Coastal Zone Cruise 06); UBC	Aug.29-Sept.6 Aug.31-Nov.29 Aug.31,1982-Apr.19,183	Temperature Salinity Current Current Water level	Guildline Digital CTD Neil Brown Cyclesonde AML 750A	[±.005,.01C°] [±.005,.02°/oo] ? ? ?	2	Alice Arm, Observatory Inlet	O_2, Transmissivity	Stucchi (pers. comm.)
82-0038	VECTOR IOS (Coastal Zone Cruise 07)	Nov.25-30 Nov.28,1982-Jan.16,1983	Temperature Salinity Current	Guildline CTD Neil Brown	[±.005,.01C°] [±.005,.02°/oo] ?	2	Alice Arm, Observatory Inlet	O_2	

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
82-0039A	VECTOR, IOS (Ocean Chemistry)	Mar.24-Apr.5 Mar.31-June 10	Temperature Salinity Current	Reversing Thermometer Salinometer Neil Brown	±.01, .02C° ±.004, .01°/oo ?	3	Alice Arm, Observatory Inlet	Chl.a, PO_4, NO_3, SiO_3, Trace Metals, O_2	Macdonald et al. (1984b)
82-0039B	VECTOR, IOS (Coastal Zone)	Apr.4-5	Temperature Salinity	Guildline 8700 CTD	±.003, .01C° ±.005, .01°/oo	3	Alice Arm, Observatory Inlet		Stucchi (pers. comm.)
82-0040	VECTOR, IOS (Ocean Chemistry Group); EPS	Sept.24-29	Temperature Salinity Temperature Salinity Water level	Reversing Thermometer Salinometer Plessey CTD ?	±.01, .02C° ±.004, .01°/oo ±.03, .05C° ±.03, .05°/oo	3	Alice Arm, Observatory Inlet	O_2, Chl.a., SiO_3, NO_3, PO_4, Sediment Traps and Cores	Macdonald et al. (1984c)
82-0044	Seakem Oceanography	Oct.1,1982-May 21,1984	Waves	Waverider Fl, WaveTrack, WAVEC, WRIPS	?	3	Dixon Entrance, Hecate Strait, Queen Charlotte Sound	Weather Stations	Seakem, interim reports to MEDS
82-0045	EPS, Vancouver	Apr.29	Temperature Salinity	Plessey CTD	[±.001,.02C°] [±.001,.03°/oo]	3	Porpoise Channel, Porpoise Harbour	Transmissivity, Residue Analysis, Sediment, Trade Metals, Biota (tissue metal content, species composition & abundance)	Pomeroy (1983)
82-0046	PARIZEAU, IOS, SUPERCODE	Apr.27-Sept.20	Water level Current	Foxboro (pressure) Aanderaa	? ±1 cm/s or 2% speed @	3	Hecate Strait (Skidegate Channel), Queen Charlotte Sound		Freeland et al. (1984) MEDS WL Stn # 9840
82-0051	PARIZEAU, IOS (Tides and Currents)	May 19-31 May 22-Sept.22 May 21,1982-Sept.25,1983	Temperature Salinity Current	Guildline 8701 CTD CMDR-AML Aanderaa RCM-4 Aanderaa AML	[±.005,.01C°] [±.005,.02°/oo] ? ±1 cm/s or 2% speed @ ±.03 cm, 3 cm @ ?	3	Queen Charlotte Sound, Hecate Strait, Chatham Sound		Crawford (pers. comm.)

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
82-0052	Dobrocky Seatech for Amax	Jan.21	Temperature	Guildline		3	Alice Arm	Suspended Solids, Dissolved Oxygen, Metal Concentration in Sediment & Biota	Amax (1982)
			Salinity	8705 CTD		0			
		Jan.21–Mar.8	Current	Aanderaa RCM-4	±1cm/s or 2% speed @	3			
			Water level	Aanderaa TG3A	±.3,3 cm @	3			
82-0053	Dobrocky Seatech for Amax	Mar.7–8	Temperature	Guildline	?	3	Alice Arm	Suspended Solids, Dissolved Oxygen, Metal Concentration in Sediment & Biota	Amax (1982)
			Salinity	8705 CTD		0			
		Mar.9–May 16	Current	Aanderaa RCM-4	±1cm/s or 2% speed @	3			
			Water level	Aanderaa TG3A	±.3,3 cm @	3			
82-0054	Dobrocky Seatech for Amax	May 13–14	Temperature	Guildline	?	3	Alice Arm	Suspended Solids, Dissolved Oxygen, Metal Concentration in Sediment & Biota	Amax (1982)
			Salinity	8705 CTD					
		May 17–July 9	Current	Aanderaa RCM-4	±1cm/s or 2% speed @				
82-0055	Dobrocky Seatech for Amax	July 17–Aug.2	Temperature	Guildline	?	3	Alice Arm	Suspended Solids, Dissolved Oxygen, Metal Concentration in Sediment & Biota	Amax (1982)
			Salinity	8705 CTD		0			
		July 10–Sept.18	Current	Aanderaa RCM-4	±1cm/s or 2% speed @	3			
82-0056	Dobrocky Seatech for Amax	Sept.15	Temperature	Guildline	?	3	Alice Arm	Suspended Solids, Dissolved Oxygen, Metal Concentration in Sediment & Biota	Amax (1982)
			Salinity	8705 CTD		0			
		Sept.19–Dec.12	Current	Aanderaa RCM-4	±1cm/s or 2% speed @	3			
82-0057	Dobrocky Seatech for Amax	Dec.9–10	Temperature	Guildline	[±0.005,.02C°]	3	Alice Arm	Suspended solids, Dissolved Oxygen, Metal Concentration in Sediment & Biota	Amax (1982)
			Salinity	8705 CTD	[±0.005,.02°/oo]				
		Dec.12,1982–Apr.15,1983	Current	Aanderaa RCM-4	±1cm/s or 2% speed @				
82-0058	UBC	Aug.	Current Temperature Salinity	Cyclesonde	?	2	Alice Arm, Observatory Inlet		Pond (pers. comm.)

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
82-0059	Dobrocky Seatech for Amax	Feb.13-14	Temperature Salinity	Guildline 8705 CTD	?	3 0	Alice Arm	Suspended Solids, Dissolved Oxygen, Metal Concentration in Sediment & Biota	Amax (1982)
82-0060	Dobrocky Seatech for Amax	Apr.16-17	Temperature Salinity	Guildline 8705 CTD	?	3	Alice Arm	Suspended Solids, Dissolved Oxygen, Metal Concentration in Sediment & Biota	Amax (1982)
82-0061	Dobrocky Seatech for Amax	June 9	Temperature Salinity	Guildline 8705 CTD	?	3 0	Alice Arm	Suspended Solids, Dissolved Oxygen, Metal Concentration in Sediment & Biota	Amax (1982)
82-0062	Dobrocky Seatech for Amax	Aug.6-7	Temperature Salinity	Guildline 8705 CTD	?	3 0	Alice Arm	Suspended Solids, Dissolved Oxygen, Metal Concentration in Sediment & Biota	Amax (1982)
82-0063	Dobrocky Seatech for Amax	Oct.14-15	Temperature Salinity	Guildline 8705 CTD	[±.005,.01C°] [±.005,.02°/oo]	3	Alice Arm	Suspended Solids, Dissolved Oxygen, Metal Concentration in Sediment & Biota	Amax (1982)
82-0064	EPS	Apr.2-4	Temperature Salinity	Plessey 9400 CTD	[±.001,.02C°] [±.001,.03°/oo]	3	Alice Arm	Transmissivity, Residue Analysis, Sediment Trace Metals, Biota (tissue metal content, species composition & abundance)	Goyette (pers. comm.)

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?-Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
82-0065	EPS	Apr.21-26	Temperature Salinity	Plessey 9400 CTD	[±.001,.02C°] [±.001,.03°/oo]	3	Masset, Porpoise Harbour	Transmissivity, Residue Analysis, Sediment Trace Metals, Biota (tissue metal content, species composition & abundance)	Goyette (pers. comm.)
82-0066	EPS	Apr.21-26	Temperature Salinity	Plessey 9400 CTD	[±.001,.02C°] [±.001,.03°/oo]	3	Alice Arm	Transmissivity, Residue Analysis, Sediment Trace Metals, Biota (tissue metal content, species composition & abundance)	Goyette (pers. comm.)
82-0067	EPS	Apr.21-26	Temperature Salinity	Plessey 9400 CTD	[±.001,.02C°] [±.001,.03°/oo]	3	Alice Arm	Transmissivity, Residue Analysis, Sediment Trace Metals, Biota (tissue metal content, species composition & abundance)	Goyette (pers. comm.)
82-0068	ENDEAVOUR, IOS (Tides and Currents)	Sept.16-22	Temperature Salinity	Guildline 8701 CTD	[±.005,.01C°] [±.005,.02°/oo]	3	Queen Charlotte Sound		Crawford (pers. comm.)
83-0002A	ENDEAVOUR, IOS (Ocean Ecology Cruise 83-04)	June 28-July 15	Temperature Salinity	Guildline 8701 CTD	±.003, .01C°@ ±.005, .01°/oo@	3	Queen Charlotte Sound, Hecate Strait, Cook Bank	Chl.a, NO_3, NO_2, PO_4, pH, SiO_3, C^{14}, Plankton, Light Intensity	Denman (1983) Forbes et al. (1983)
83-0002B	ENDEAVOUR, IOS (Offshore Oceanography)	July 10-16	Temperature Salinity	Guildine CTD	[±.005,.01C°] [±.005,.02°/oo]	3	Dixon Entrance, West of Queen Charlottes and Vancouver Island	Nutrients	

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
83-0003A	VECTOR, IOS, NRHC Cruise OC-83-IS-003	July 10-12	Temperature Salinity	Reversing Thermometer ?	[±.02,.03C°] ?	2	Alice Arm, Hastings Arm, Lama Passage, Tolmie Channel, Rupert Inlet	O_2, NO_3, PO_4, Chl.a, Hg, Sediment, Plankton, Benthos	Thompson (1983)
83-0003B	VECTOR, Cruise OC-83-IS-003 EPS Vancouver	July 5-11	Temperature Salinity	Plessey CTD	[±.001,.02C°] [±.001,.03°/oo]	3	Rupert Inlet, Holberg Inlet, Observatory Inlet, Alice Arm	Benthos, Transmissivity	Goyette (pers. comm.)
83-0014	VECTOR, IOS (Coastal Zone Group Cruise 08)	Jan.14-21 Jan.17-Apr.15	Temperature Salinity Current	Guildline 8700 CTD Neil Brown, Aanderaa	±.003,.01C° ±.005,.01°/oo ? ±1cm/s or 2% speed @	3	Alice Arm, Observatory Inlet	O_2, Sediment	Macdonald et al. (1984a)
83-0015	VECTOR, IOS (Coastal Zone Group Cruise 09)	Apr.13-18	Temperature Salinity	Guildline CTD	[±.005,.01C°] [±.005,.02°/oo]	3	Alice Arm, Observatory Inlet	O_2	Stucchi (pers. comm.) Macdonald et al. (1984a)
83-0021	CHS	June 9-Sept.29	Water level	Ottboro (pressure)	?	3	Dixon Entrance, Queen Charlotte Sound		MEDS WL Stn # 8958, 8974, 8978, 9958
83-0034	Charter Boat, IOS (Tides and Currents)	Jan.22-Sept.28	Water level	AML	?	3	Queen Charlotte Sound		
83-0035	PARIZEAU, IOS (Tides and Currents, Offshore Oceanography)	Apr.29-May 20	Water level Wave Current Temperature Salinity	AML, TG3A 750A AAND, CMDR, GEOD, M-Mc Guildline CTD	±0.3 cm, 3 cm @ ? ? [±.005,.01C°] [±.005,.02°/oo]	3	Queen Charlotte Sound, Hecate Strait		
83-0036A	PARIZEAU, IOS (Offshore Oceanography)	Sept.5-17	Water level Temperature Salinity	TG12 Guildline CTD	? [±.005,.01C°] [±.005,.02°/oo]	3	West Coast of Queen Charlotte Islands, Queen Charlotte Sound, Dixon Entrance		

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
83-0036B	PARIZEAU, IOS (Tides and Currents)	Sept.18-29	Current Water level Temperature Salinity	CMDR, Aanderaa AML, TG3A Guildline CTD	? ±1 cm/s or 2% speed @ ? ±.3,3 cm @ [±.005,.01C°] [±.005,.02°/oo]	3	Hecate Strait	O_2, Nutrients Bird Watcher Observations	
83-0037	Dobrocky Seatech for Amax	Apr.15	Temperature Salinity	Guildline 8705 CTD	±.001,.005C°@ ±.002@,[.02]°/oo	3	Alice Arm	Suspended Solids, Dissolved Oxygen, Metal Concentration in Sediment & Biota	Amax (1982)
83-0038	EPS	Apr.22	Temperature Salinity	Plessey 9400 CTD	[±.001,.02C°] [±.001,.03°/oo]	3	Porpoise Harbour	Transmissivity, Residue Analysis, Sediment Trace Metals, Biota (tissue metal content, species composition & abundance)	Goyette (pers. comm.)
83-0039	EPS	Oct.5-6	Temperature Salinity	Plessey 9400 CTD	[±.001,.02C°] [±.001,.03°/oo]	3	Alice Arm	Transmissivity, Residue Analysis, Sediment Trace Metals, Biota (tissue metal content, species composition & abundance)	Goyette (pers. comm.)
84-0001	PARIZEAU, IOS (Tides and Currents, Offshore Oceanography)	Jan.11-21	Current Water level Temperature Salinity	Aanderaa CMDR TG12 Guildline CTD	± 1cm/s or 2% speed @ ? ±.3,3 cm @ [±.005,.01C°] [±.005,.02°/oo]	3	Queen Charlotte Sound, Hecate Strait		
84-0002	PARIZEAU, IOS (Tides and Currents, Offshore Oceanography)	Apr.11-26	Current Water level Temperature Salinity	Aanderaa,CMDR-AML Aanderaa, AML Guildline CTD	? ±.3,3 cm @ ? [±.005,.01C°] [±.005,.02°/oo]	3	Queen Charlotte Sound, Hecate Strait, Dixon Entrance		
84-0003	Helicopter, IOS (Tides and Currents)	Apr.	Temperature Salinity Current (profiles)	Hydrolab CTD Marsh-McBirney	? ? ?	2	Mouth of Skeena River		Ages (pers. comm.)

TABLE 2: SUMMARY LISTING OF DATA SETS (Continued)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
84-0005	EPS	July 6-7	Temperature Salinity	Plessey 9400 CTD	[±.001,.02C°] [±.001,.03°/oo]	3	Alice Arm	Transmissivity, Residue Analysis, Sediment Trace Metals, Biota (tissue metal content, species composition & abundance)	Goyette (pers. comm.)
84-0006	Dobrocky Seatech Ltd.	June 12-25	Temperature Salinity Drift	Guildline 8706 CTD Loran-C Drifters	[±.003,.01C°] [±.005],.05°/oo ?	3	Dixon Entrance		Greisman (pers. comm.)
84-0007	PARIZEAU, IOS (Offshore Oceanography)	Oct.14-31	Temperature Salinity	Guildline 8701 CTD	[±.005,.01C°] [±.005,.02°/oo]	3	Dixon Entrance	O_2	Thomson (pers. comm.)

9. MAPS

This section contains maps showing the yearly distribution of temperature, salinity, current, water-level, wave, and surface-drift measurements. One overall map and up to five additional sub-maps are used (Figure 20). All are Lambert Conformal Conic projection with maps 1 through 6 having scales 1:2.9, 1.6, 1.7, 1.4, 1.5 and 1.5 million, respectively.

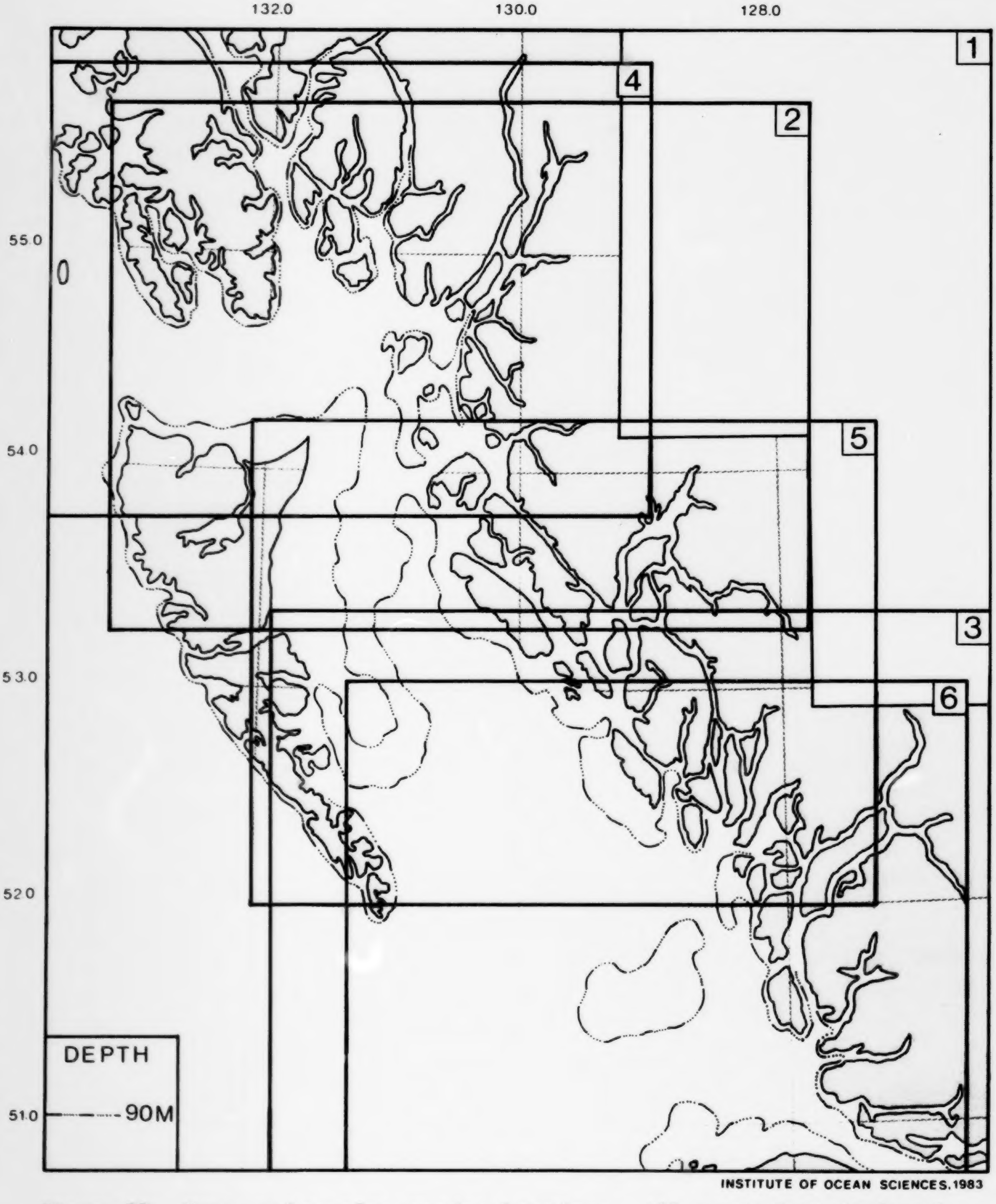
Generally, temperature-salinity and any water-level stations are plotted together. If there were also current-meter data, then the first map will have only temperature-salinity, and the current and water-level data will be displayed on a second map. Wave data have usually been plotted with current and/or water-level data. The overall map generally contains all the stations; the sub-maps provide more detail and several may be used to display station positions in one area.

For some data sets, exact locations are not known. A "?" on the first map is used to indicate the general area, if known.

The legend indicates the following data types:

CM - current-meter data
DRF - drifter data
TS - temperature-salinity data
WL - water-level data
WAVE - wave data

The coastlines have been smoothed and small islands removed. A minimum displacement of 0.03 inch is required for a new station to be plotted. This was implemented to prevent the plotter from wearing through the paper in heavily sampled locations. Vessel/agencies in the legend are abbreviations. Note that cruise station symbols may be different on two different maps.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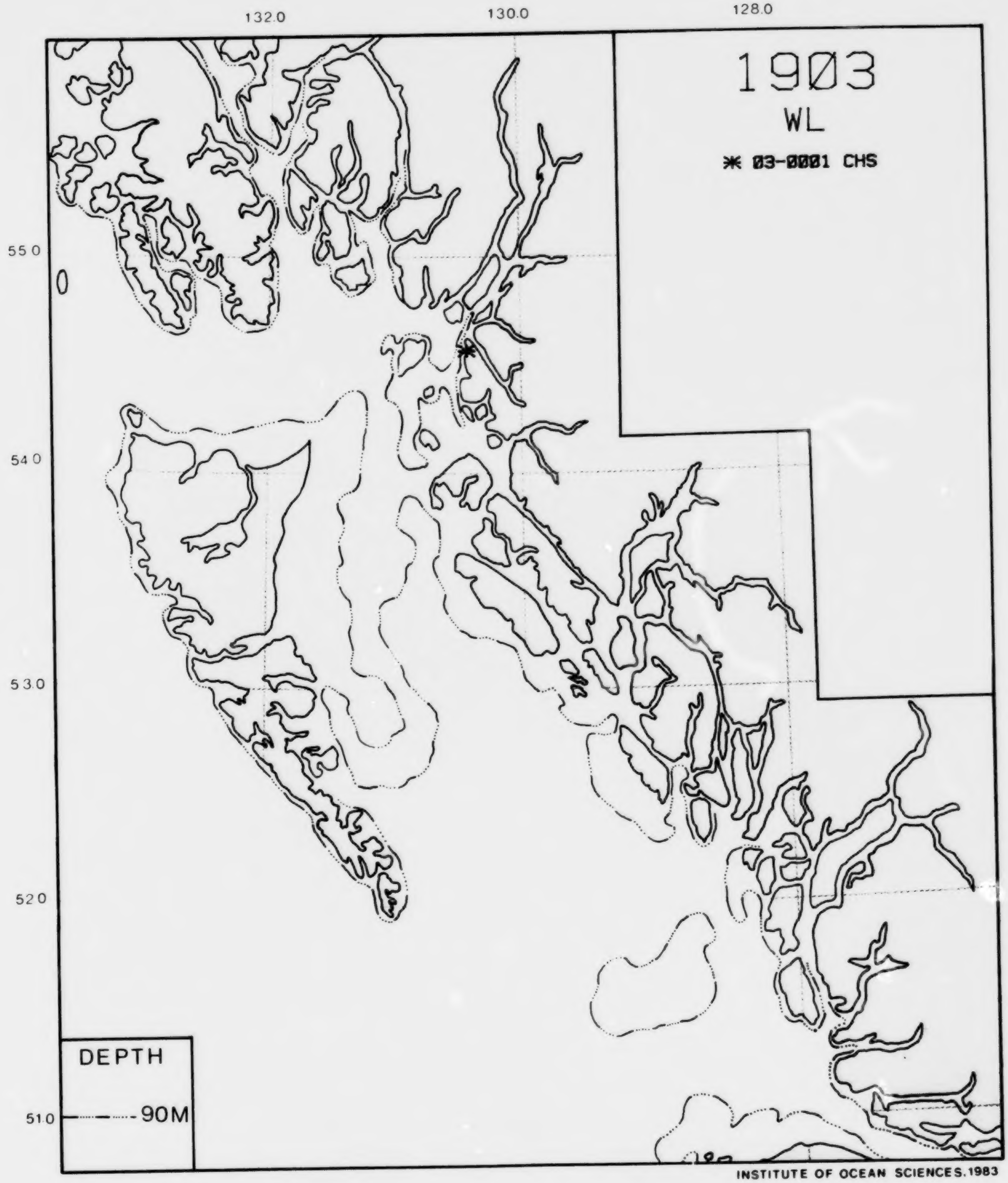
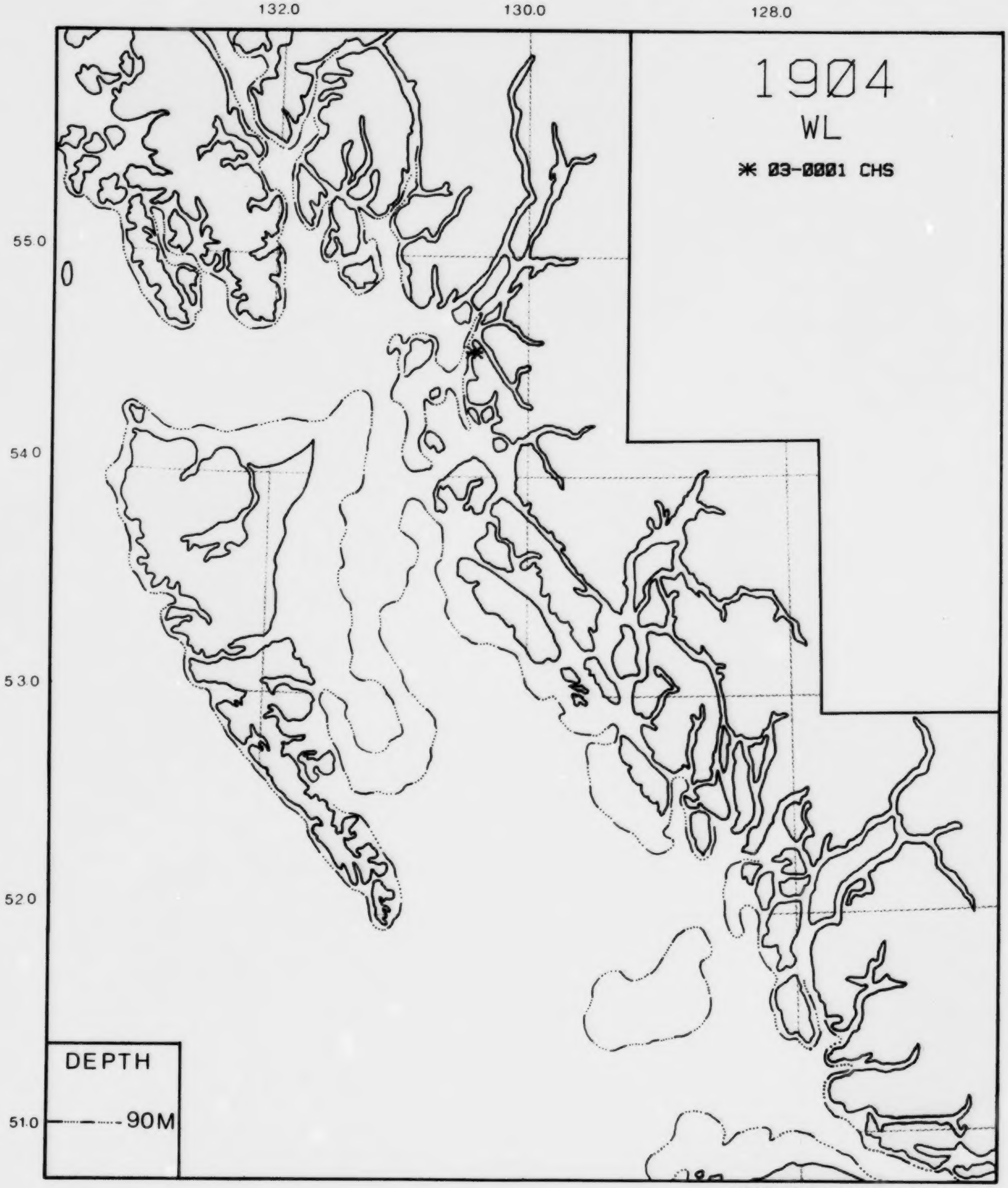
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1
2
3
4
5
6
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES.1983

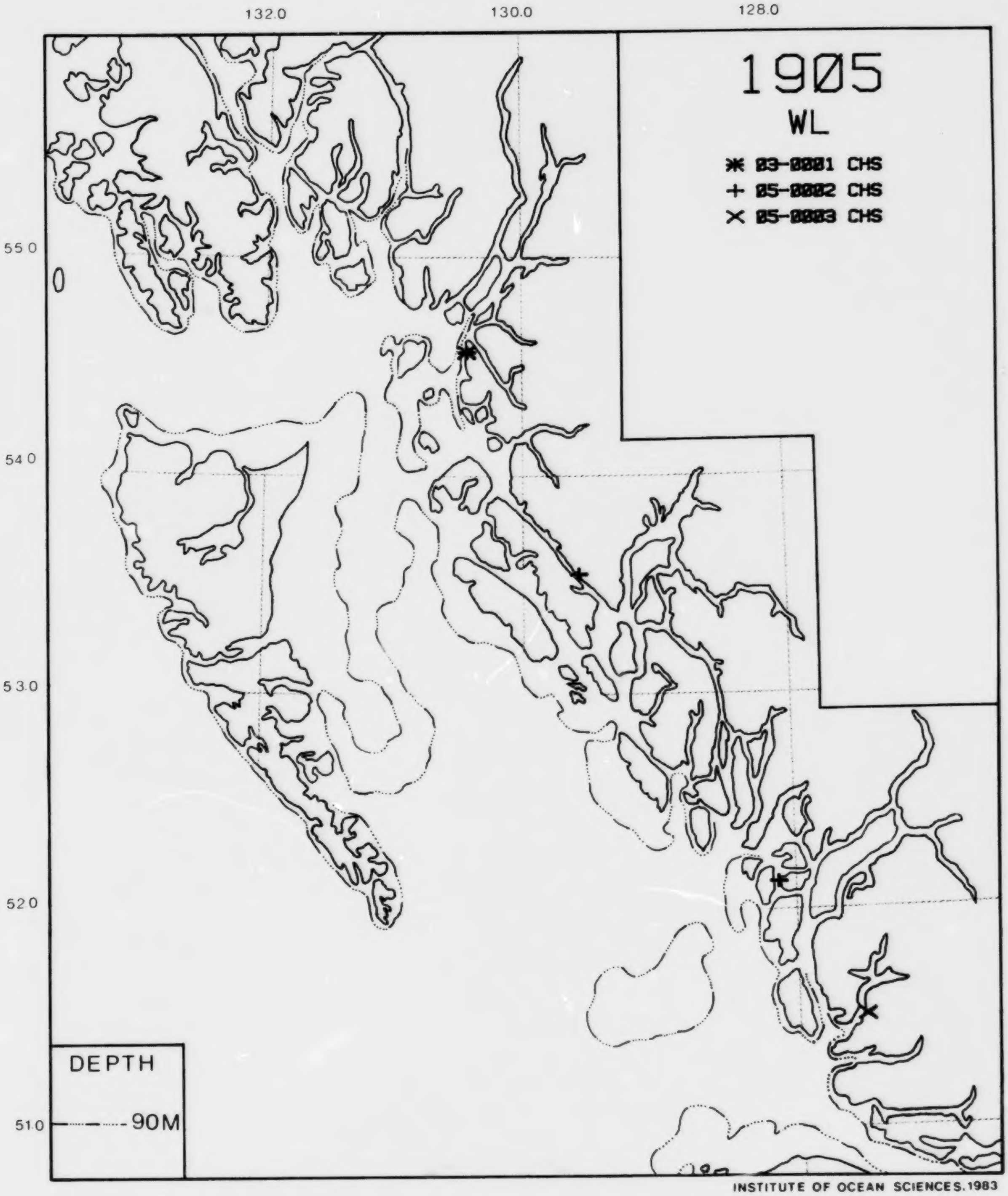
Figure 20: Maps used to plot station locations. All are Lambert Conformal Conic projection.


132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1903
WL
✱ 03-0001 CHS
DEPTH
90M

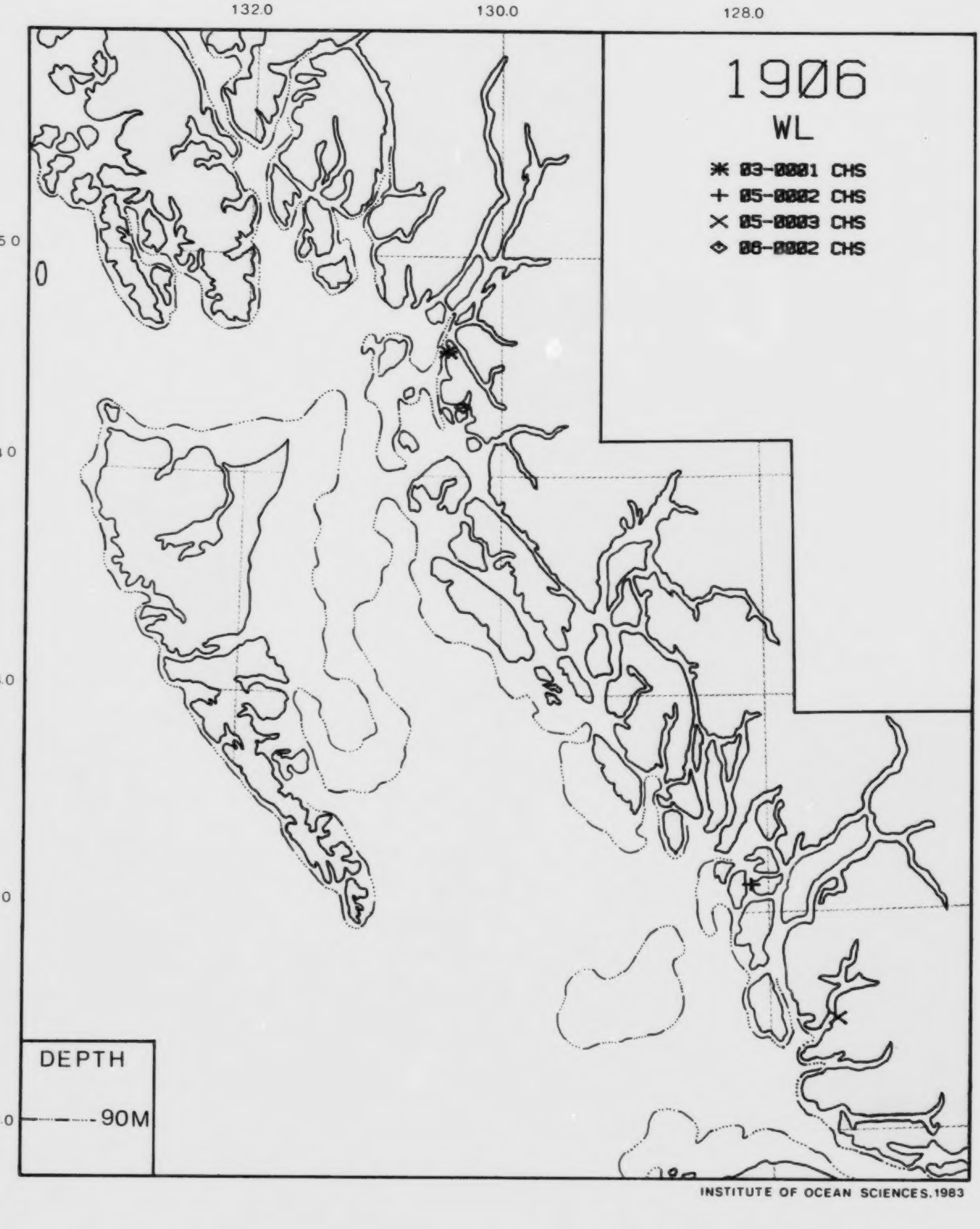
INSTITUTE OF OCEAN SCIENCES.1983


132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1904
WL
* 03-0001 CHS
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983


132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1905
WL
✳ 03-0001 CHS
+ 05-0002 CHS
× 05-0003 CHS
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES, 1983


132.0
130.0
128.0
1906
WL
✳ 03-0001 CHS
+ 05-0002 CHS
× 05-0003 CHS
◇ 08-0002 CHS
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54.0
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DEPTH
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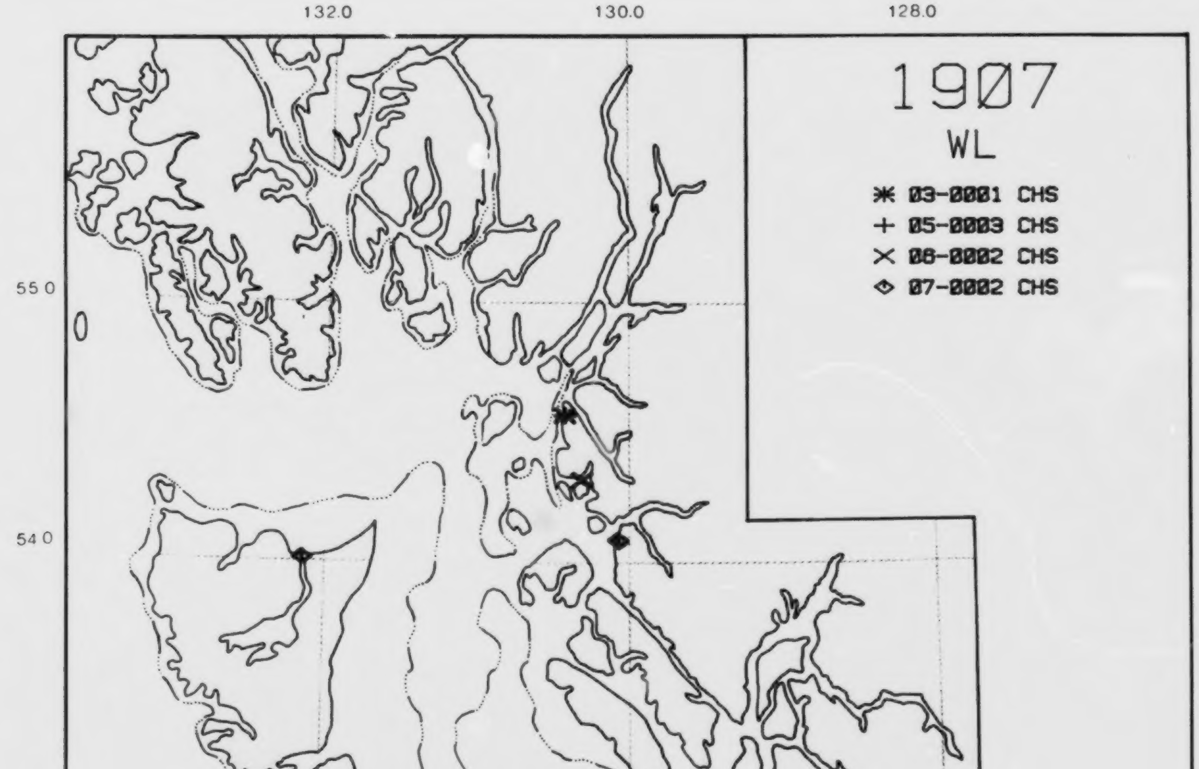
INSTITUTE OF OCEAN SCIENCES,1983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× 06-0002 CHS
◇ 07-0002 CHS
DEPTH
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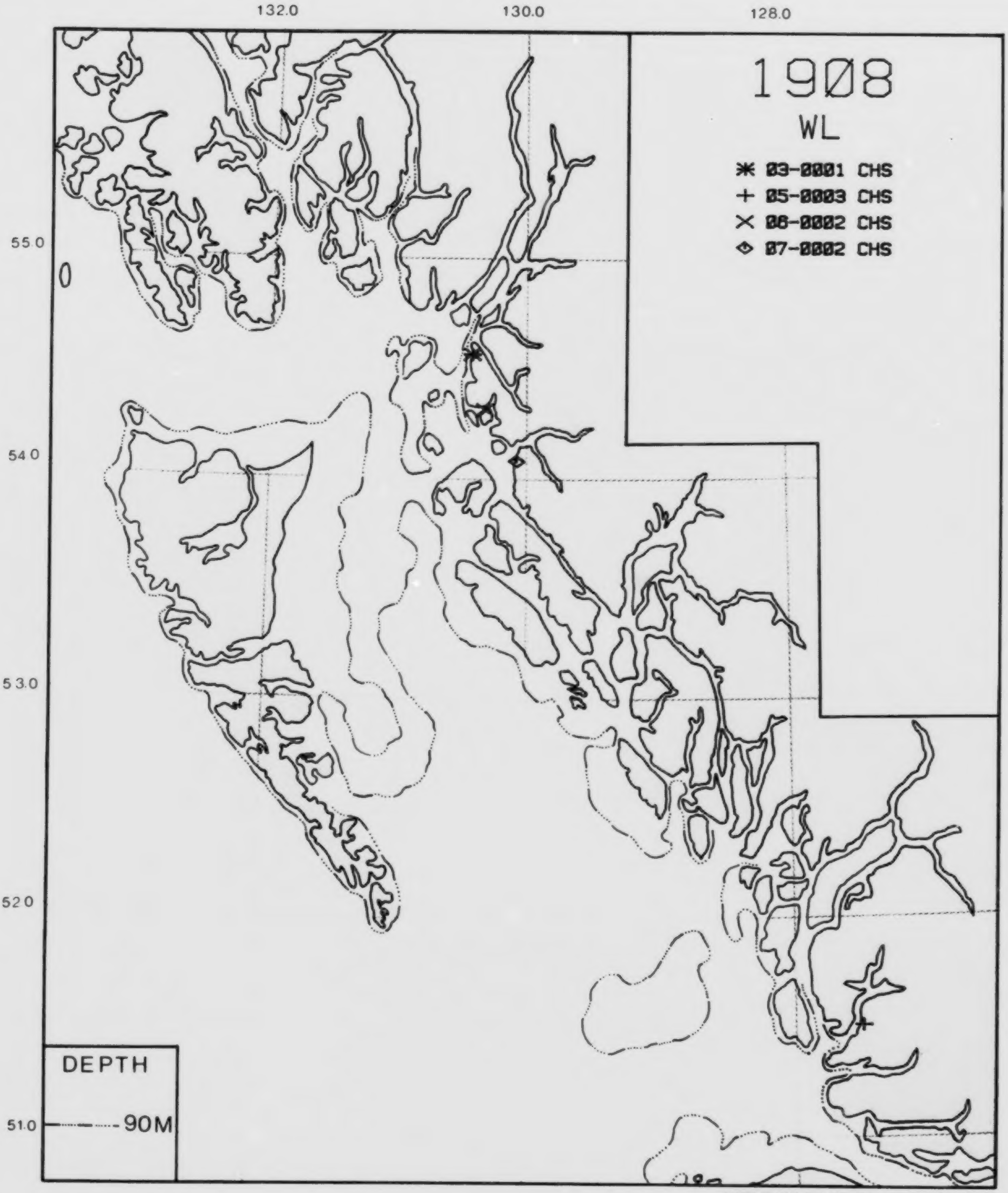
INSTITUTE OF OCEAN SCIENCES.1983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DEPTH
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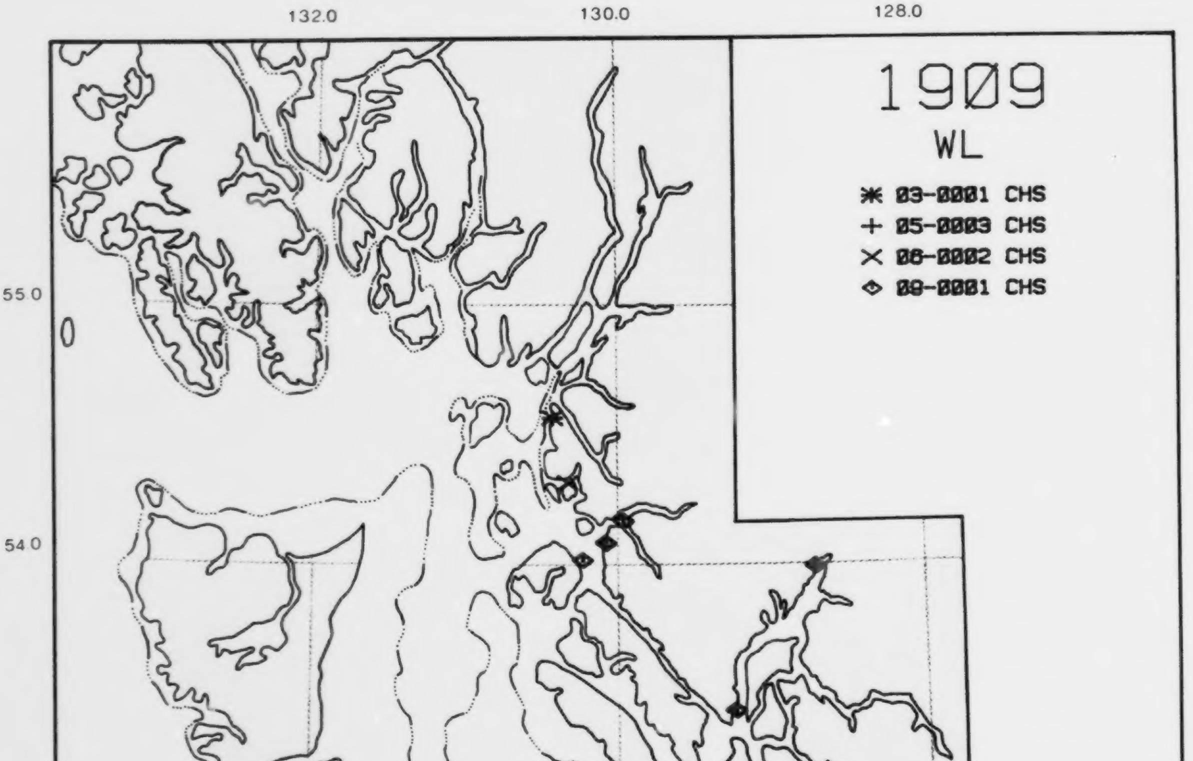
INSTITUTE OF OCEAN SCIENCES.1983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× 08-0002 CHS
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DEPTH
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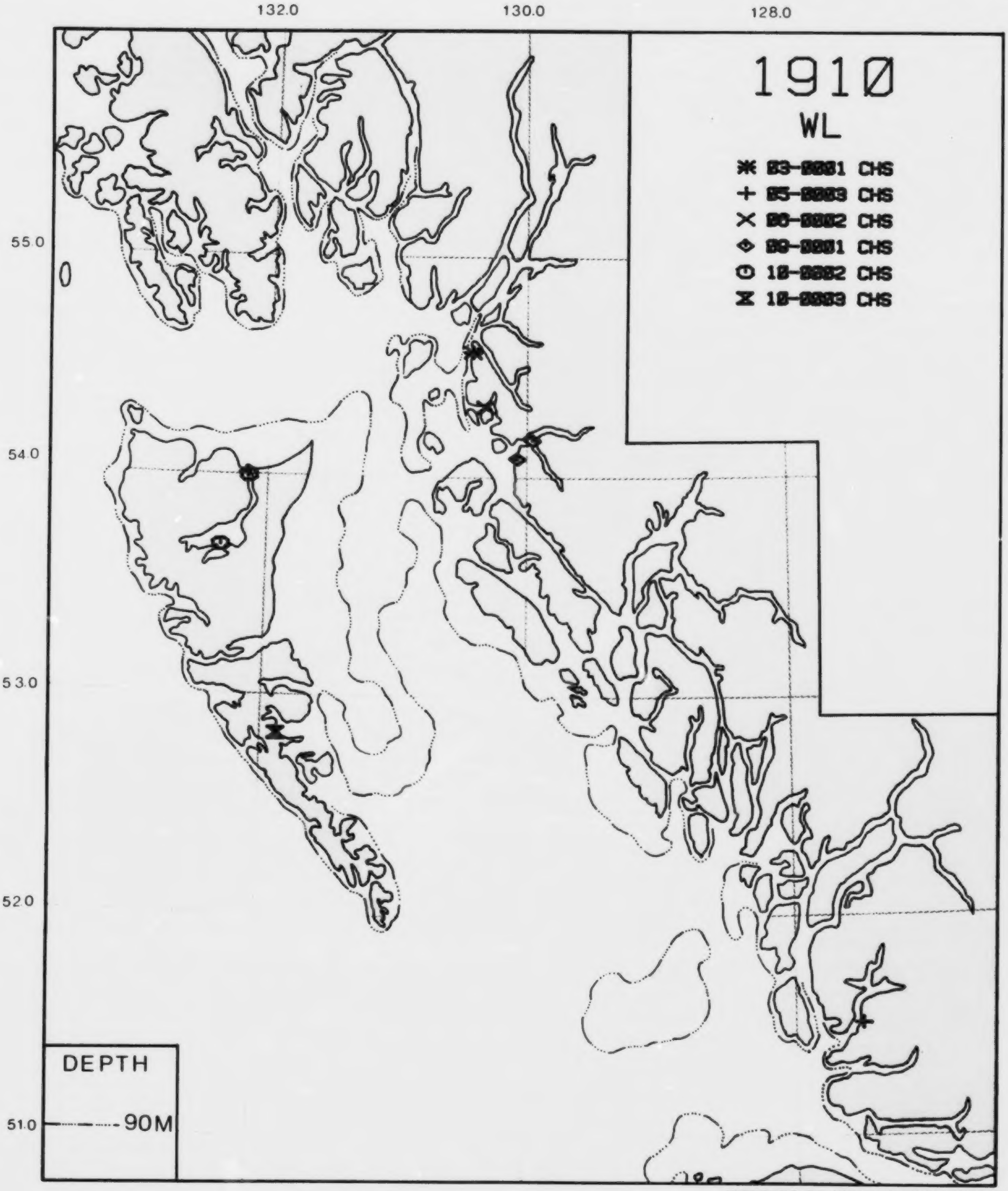
INSTITUTE OF OCEAN SCIENCES, 1983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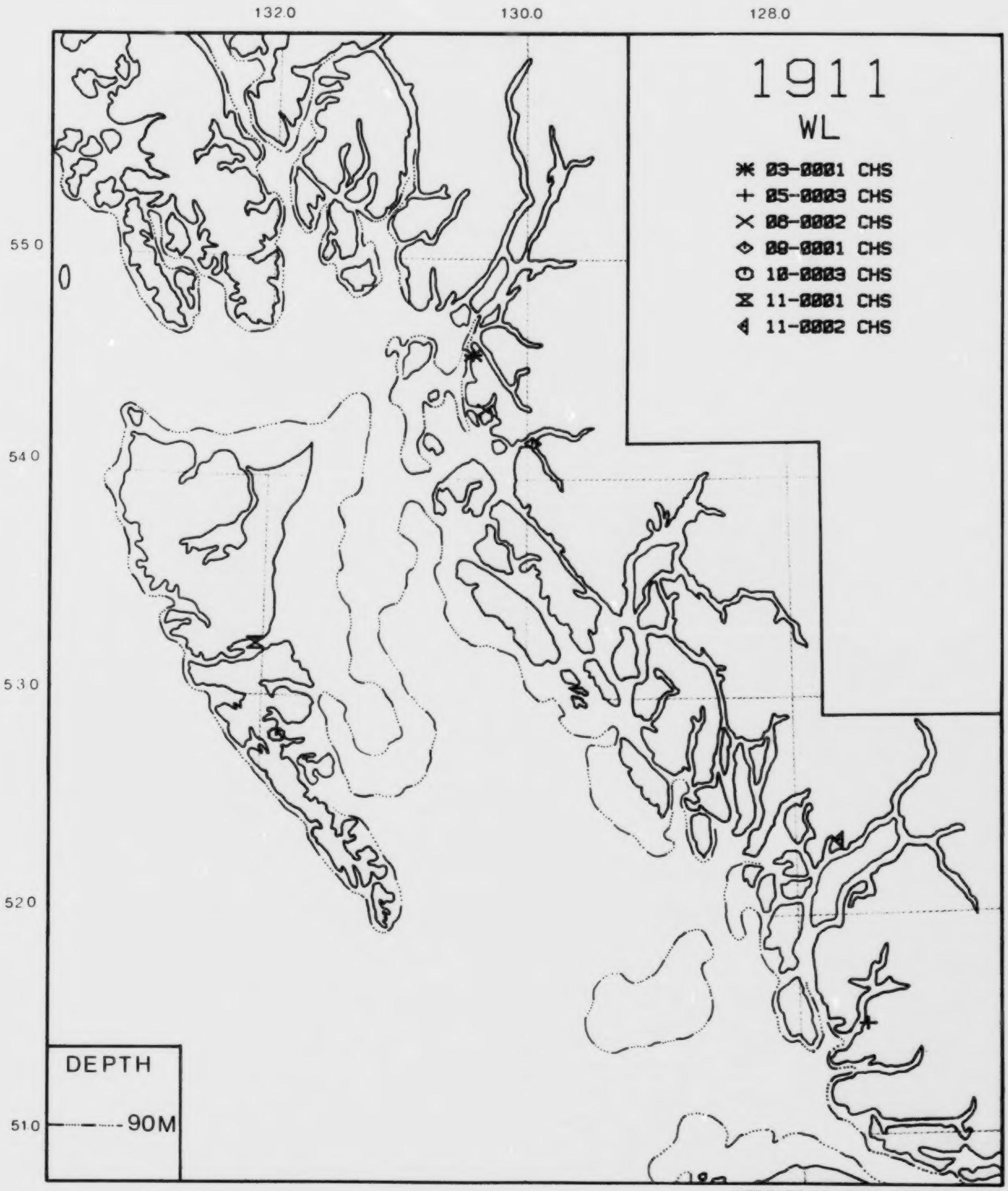
⊙ 10-0002 CHS
⧖ 10-0003 CHS
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983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× 08-0002 CHS
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⧗ 11-0001 CHS
◀ 11-0002 CHS
DEPTH
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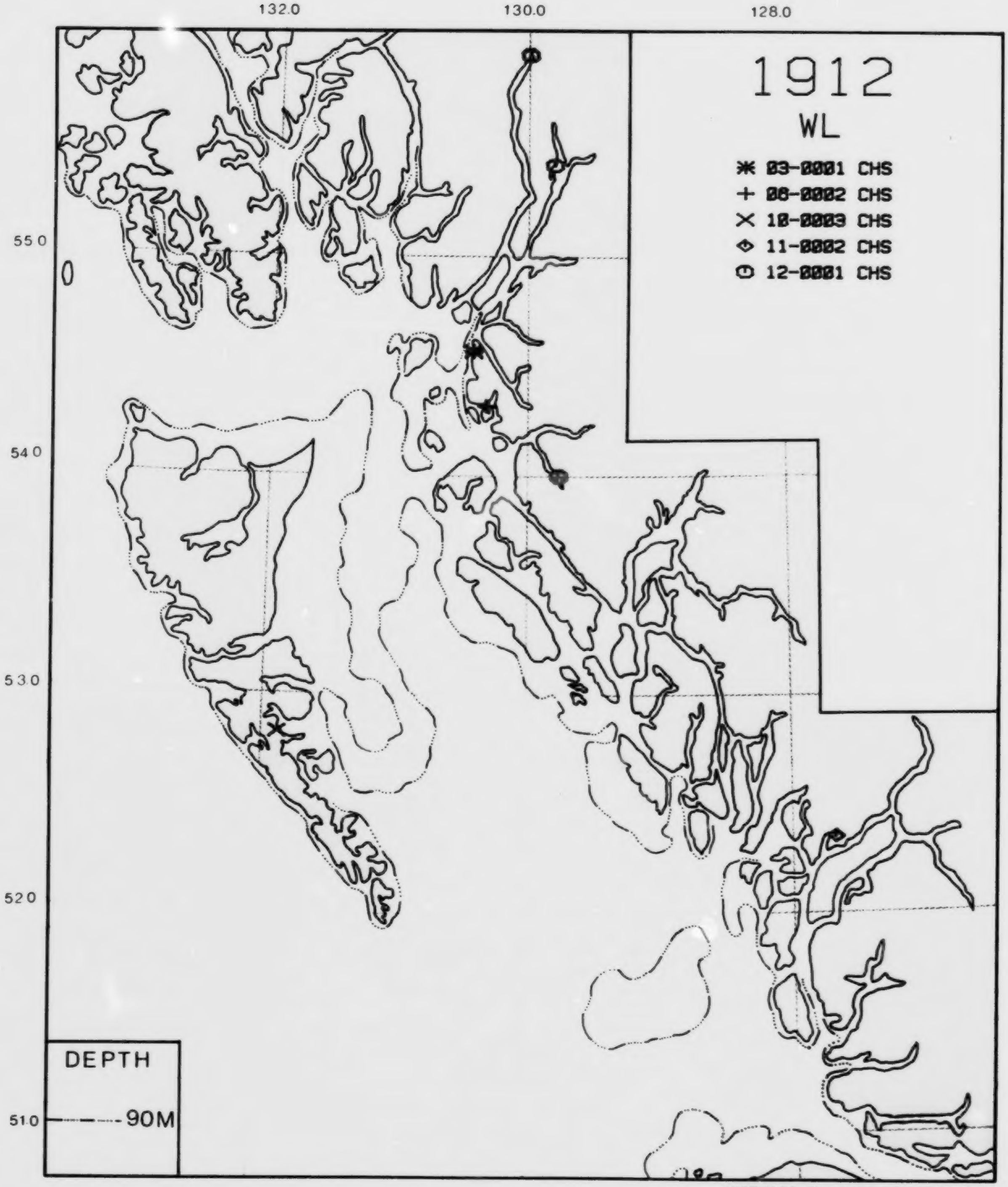
INSTITUTE OF OCEAN SCIENCES.1983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◇ 11-0002 CHS
⦶ 12-0001 CHS
DEPTH
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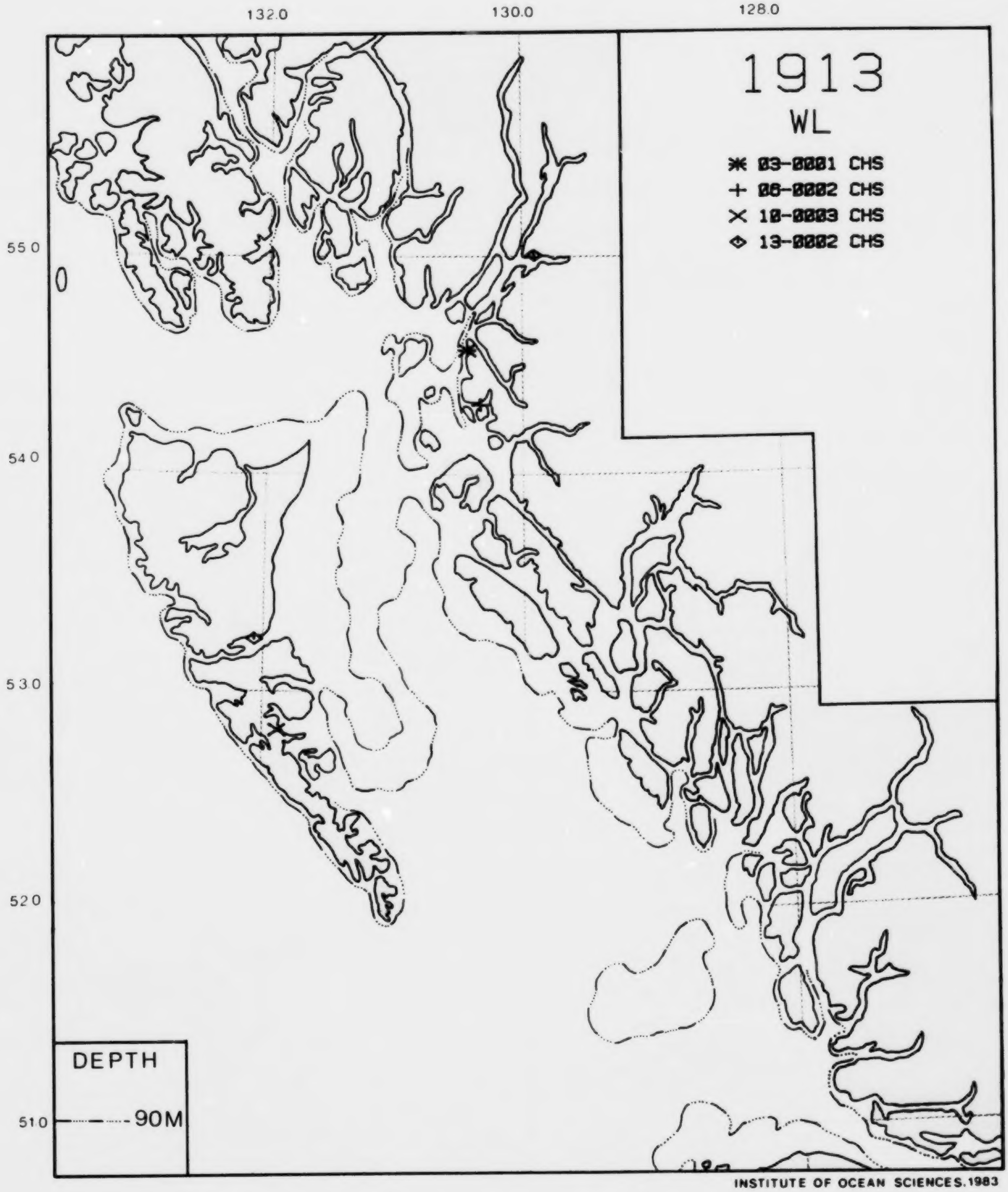
INSTITUTE OF OCEAN SCIENCES.1983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DEPTH
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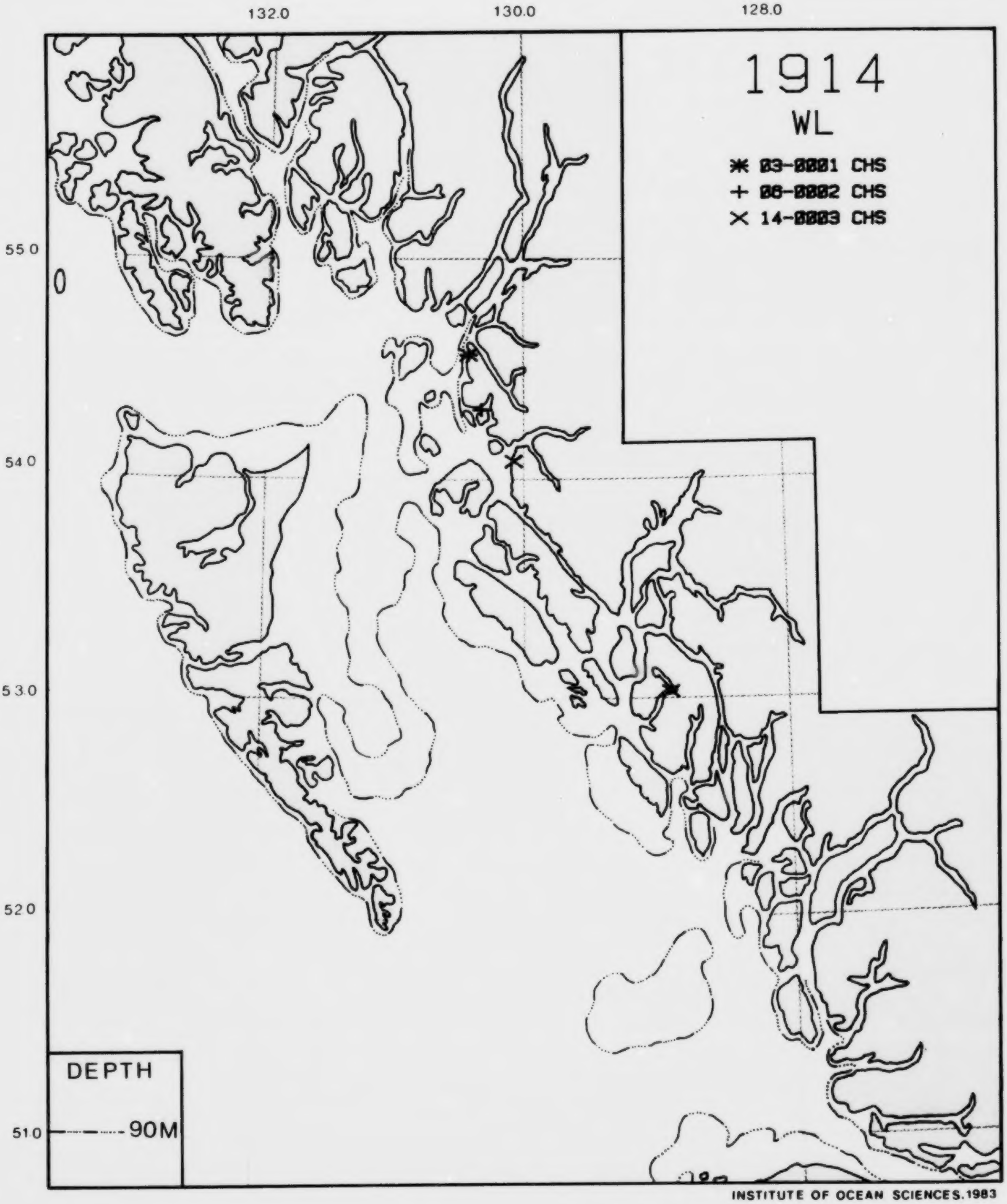
INSTITUTE OF OCEAN SCIENCES.1983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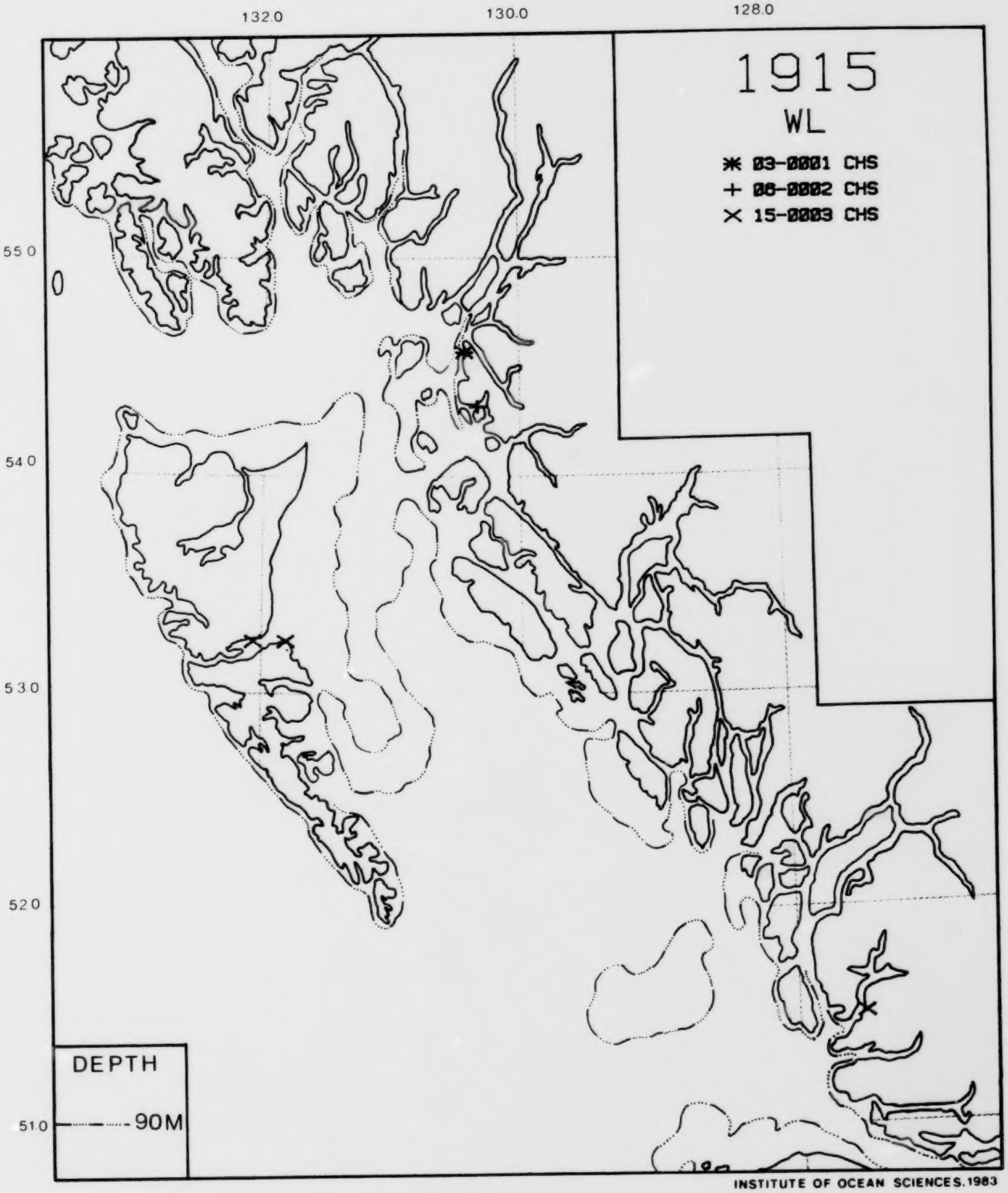
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983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× 15-0003 CHS
DEPTH
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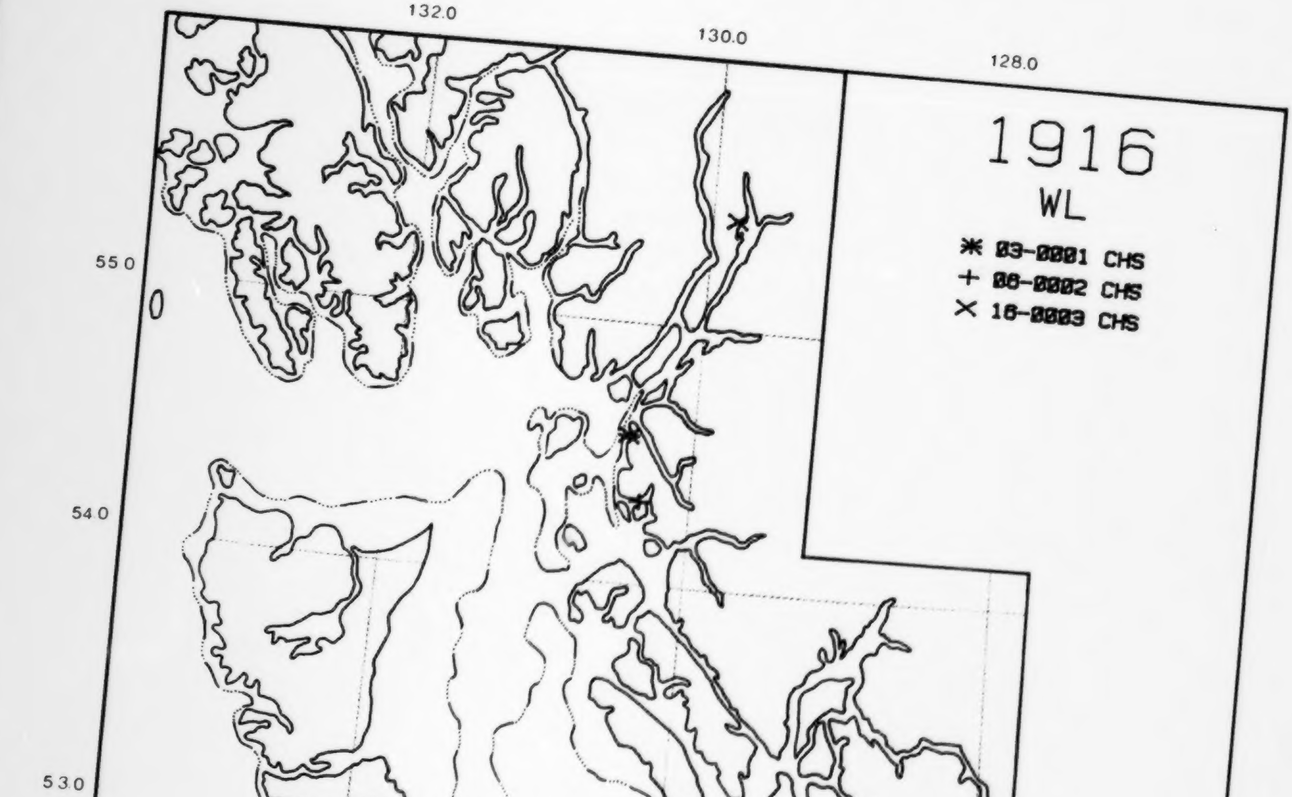
INSTITUTE OF OCEAN SCIENCES.1983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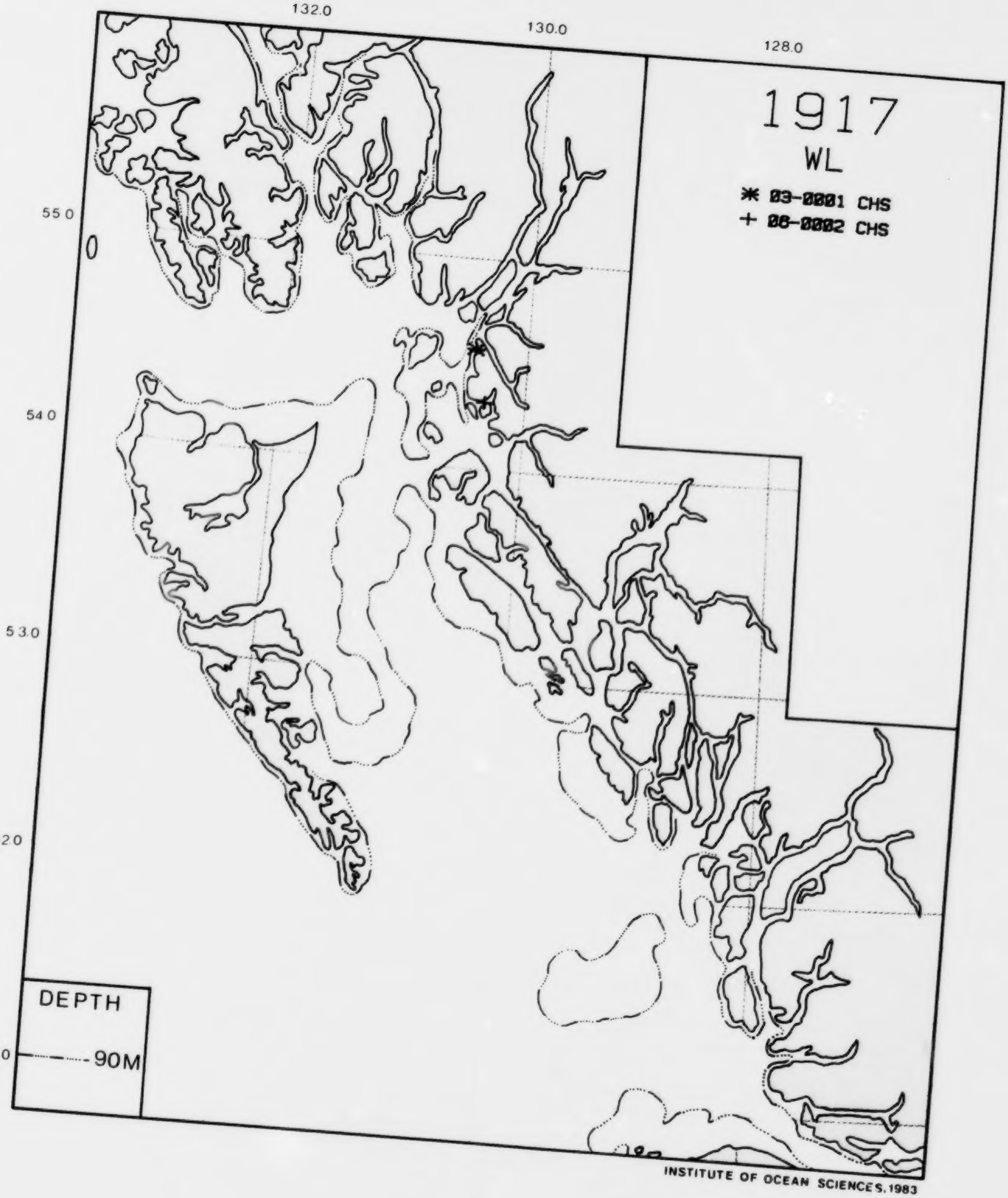
INSTITUTE OF OCEAN SCIENCES.1983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DEPTH
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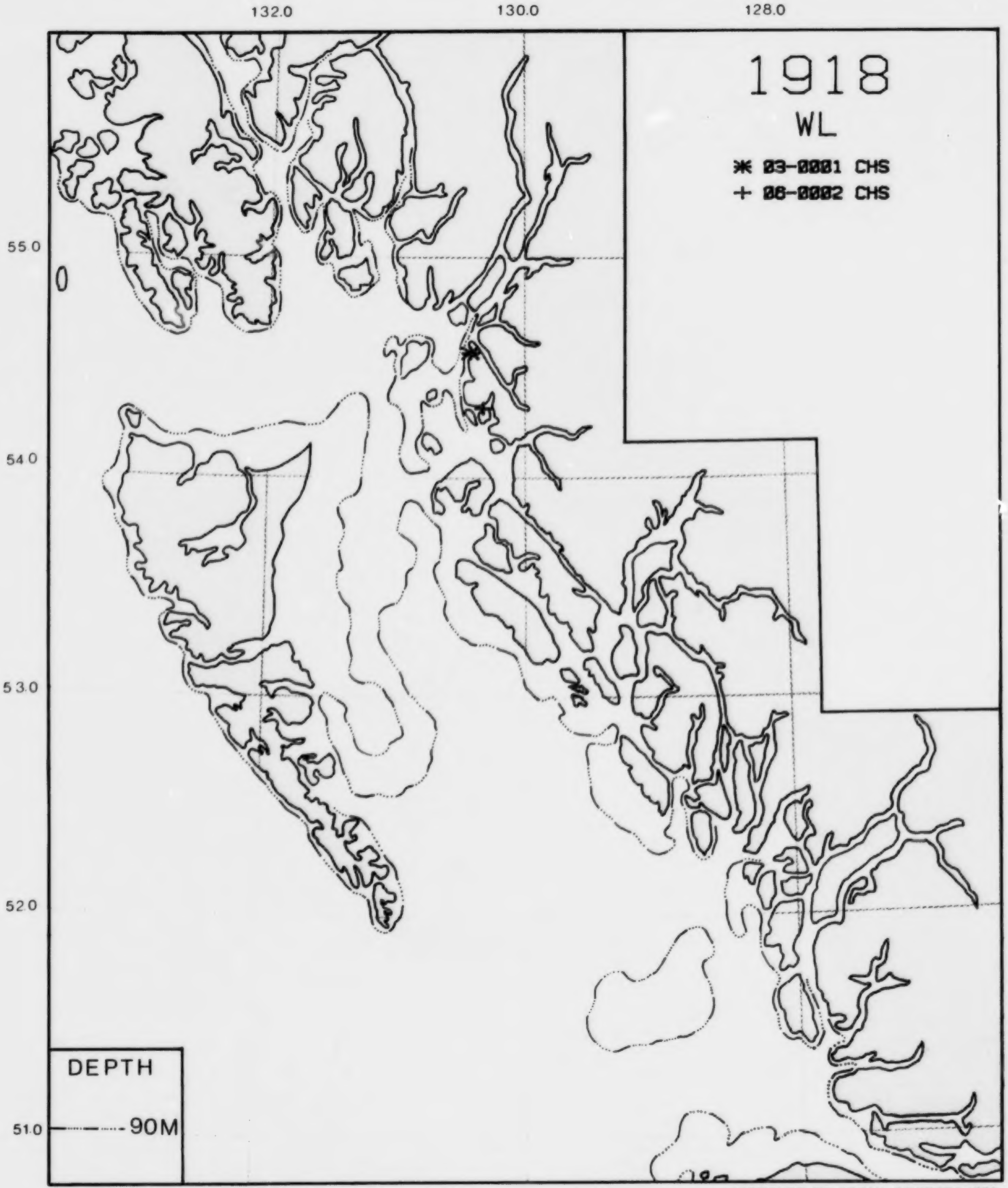
INSTITUTE OF OCEAN SCIENCES, 1983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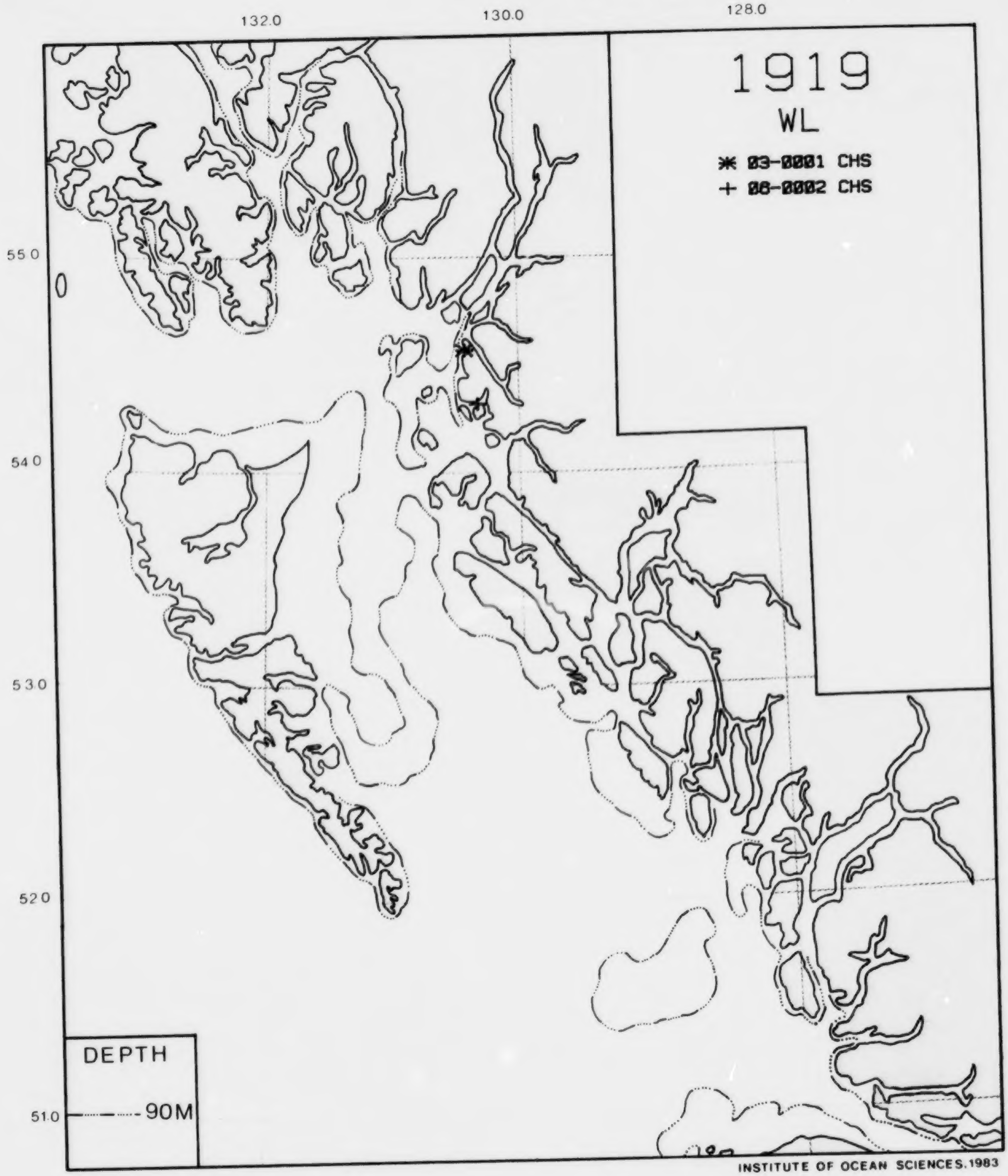
INSTITUTE OF OCEAN SCIENCES,1983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DEPTH
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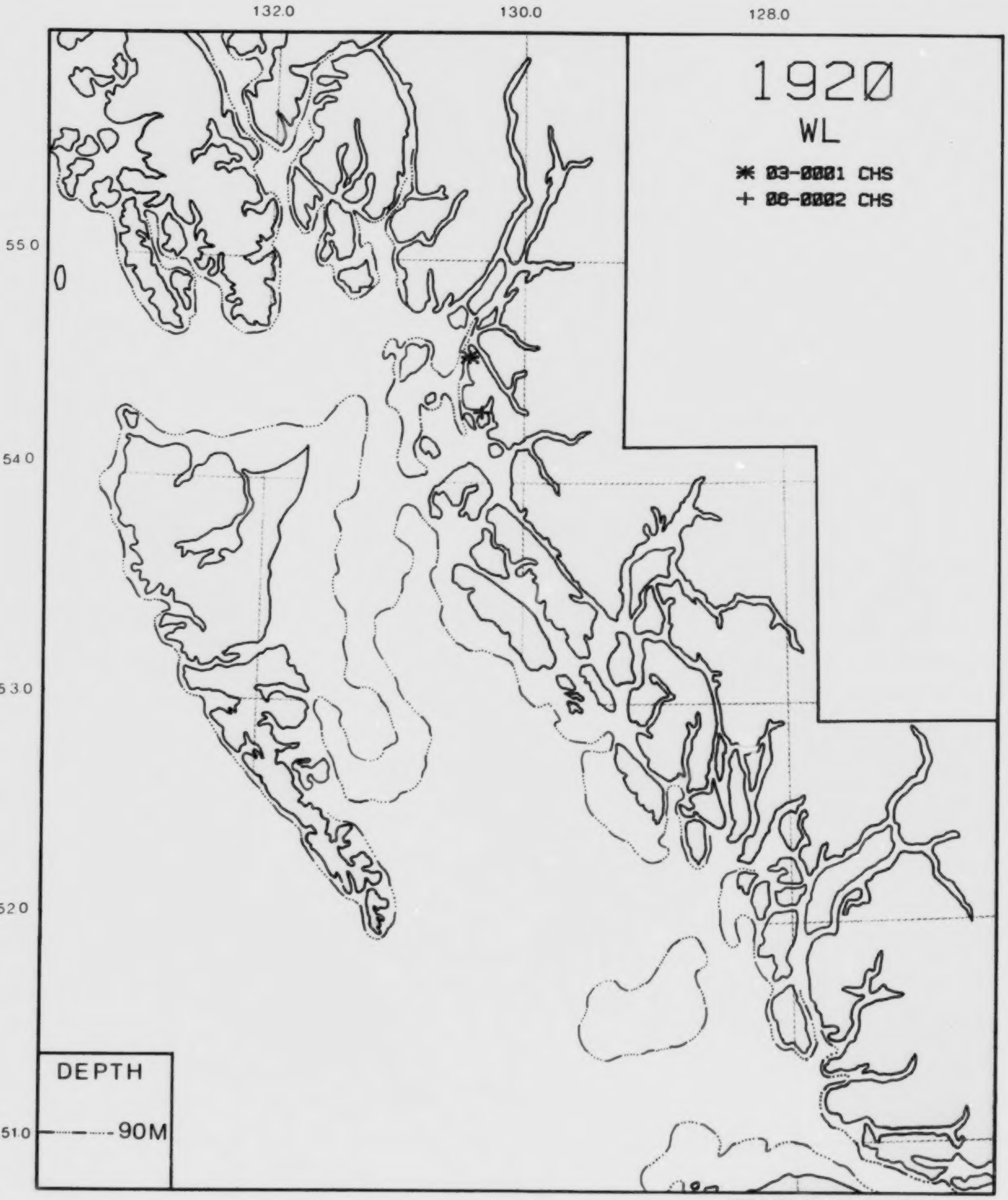
INSTITUTE OF OCEAN SCIENCES.1983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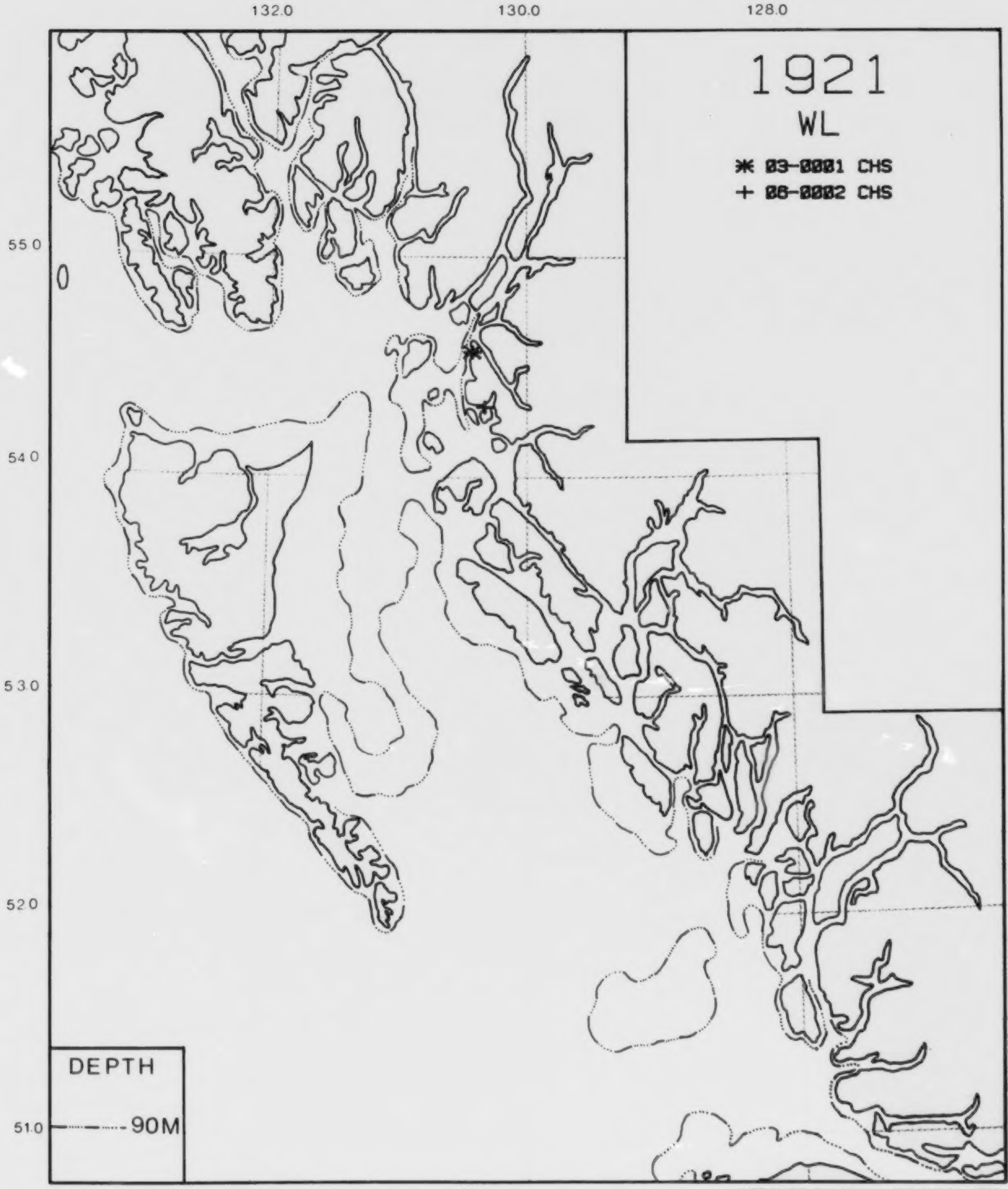
INSTITUTE OF OCEAN SCIENCES, 1983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DEPTH
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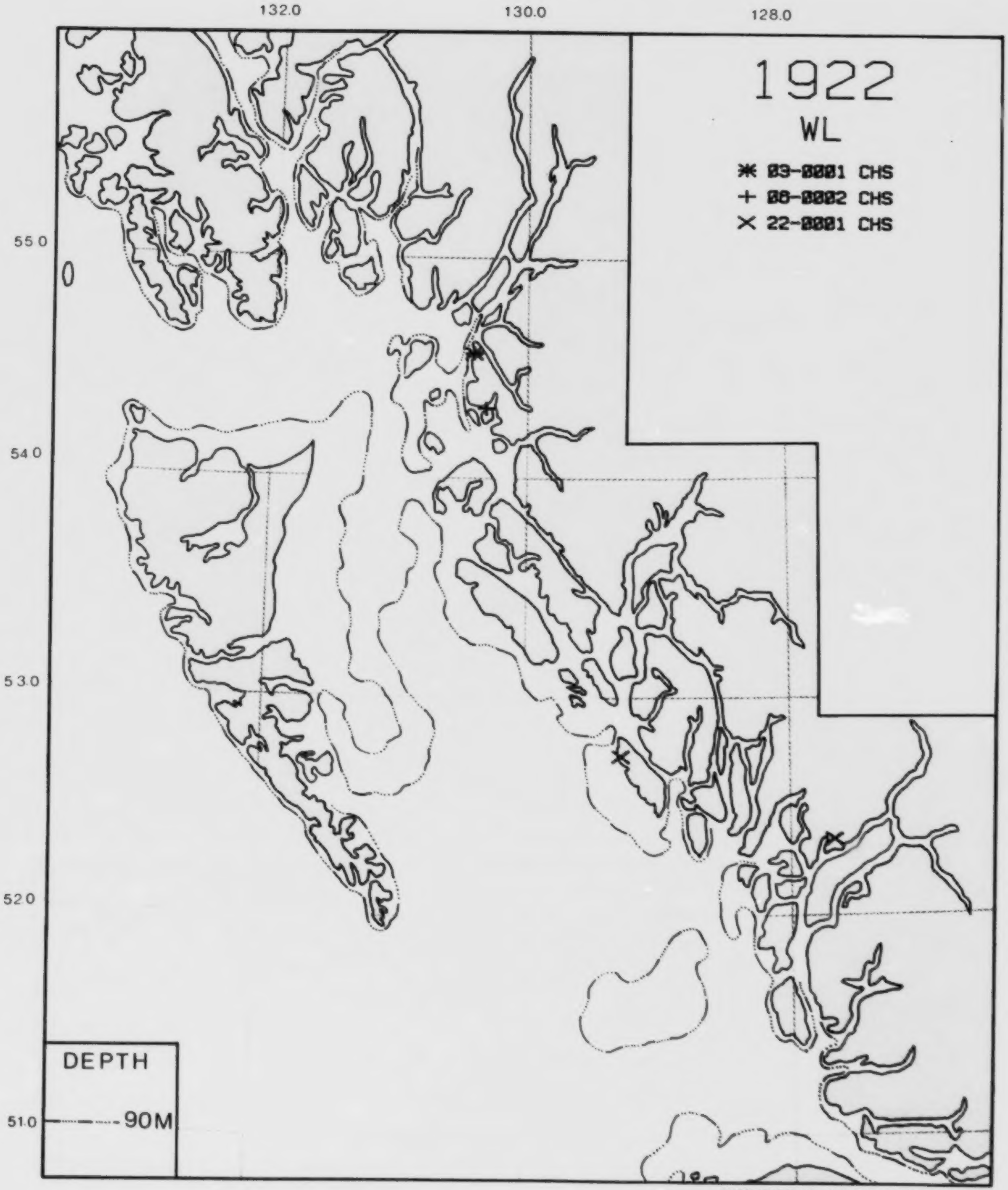
INSTITUTE OF OCEAN SCIENCES.1983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DEPTH
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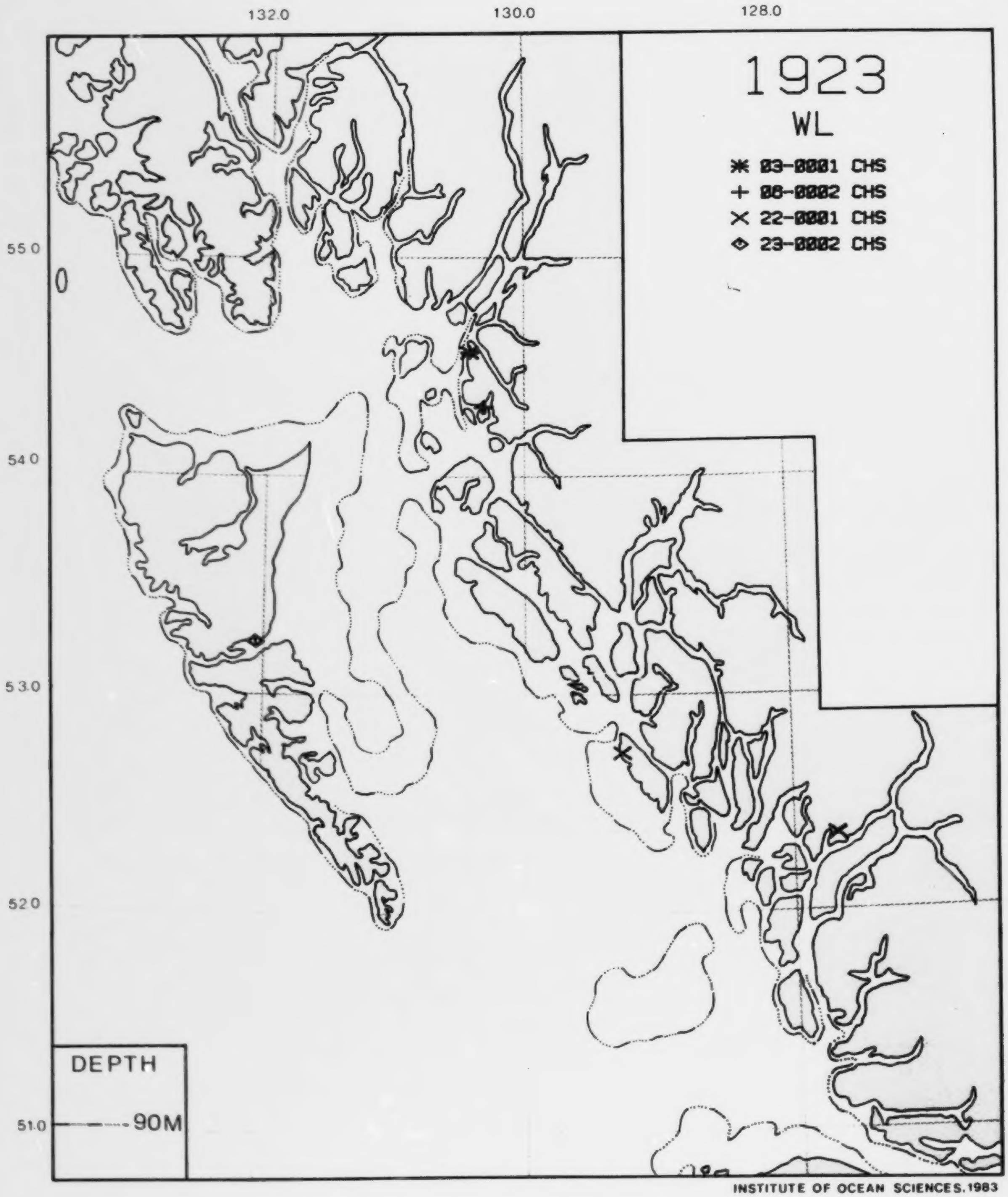
INSTITUTE OF OCEAN SCIENCES.1983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WL
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× 22-0001 CHS
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CHS
DEPTH
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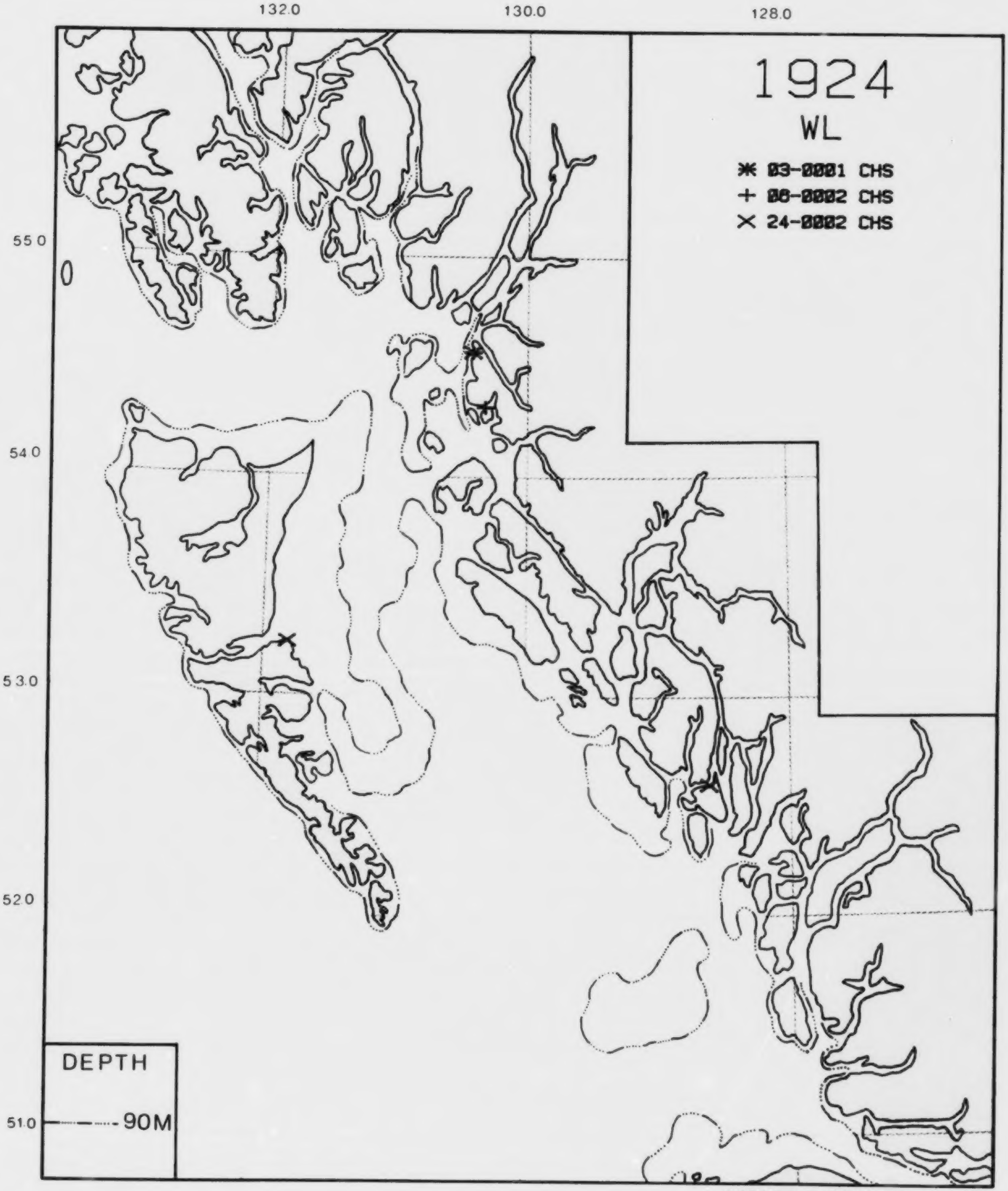
INSTITUTE OF OCEAN SCIENCES.1983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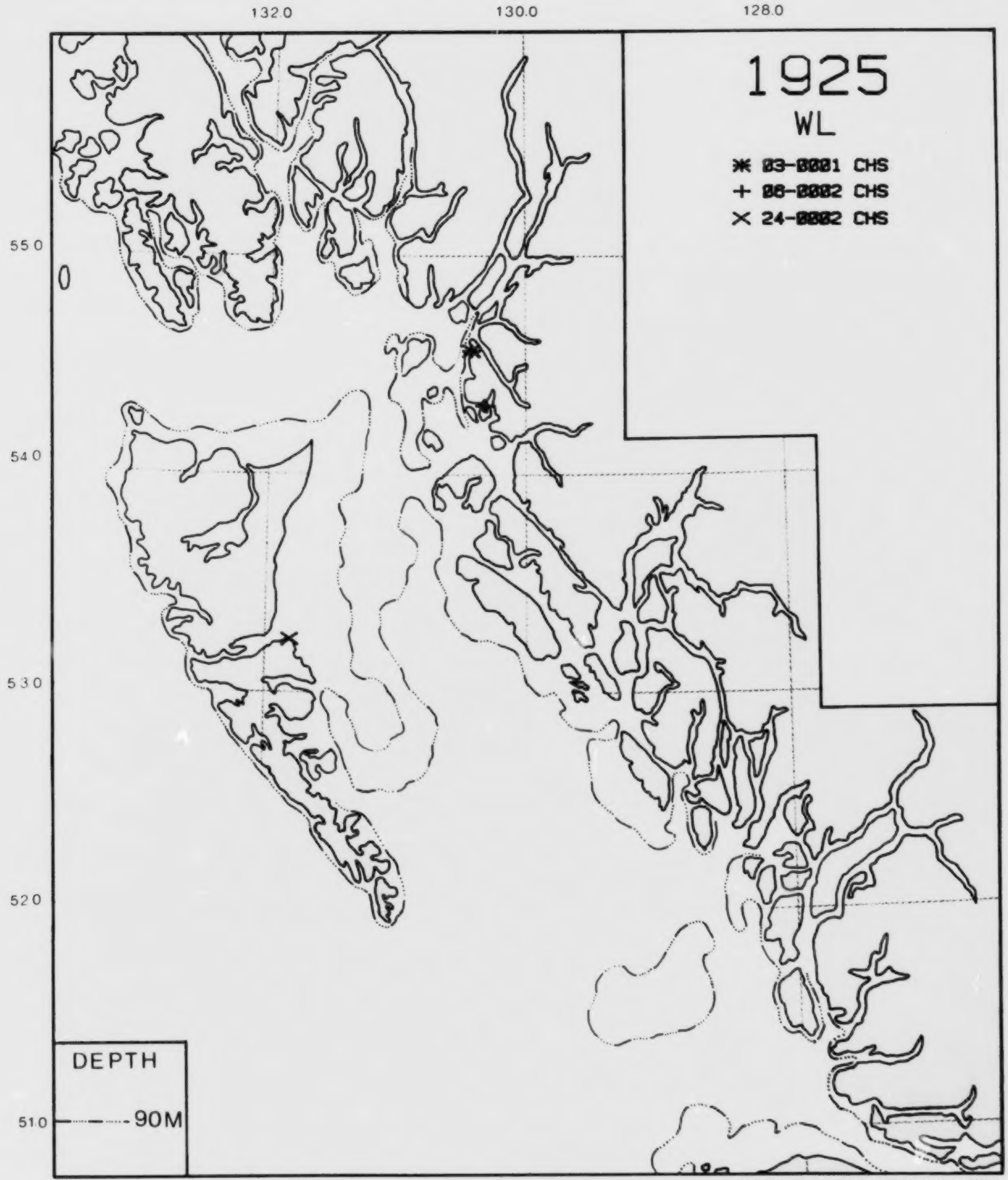
× 24-0002 CHS
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983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DEPTH
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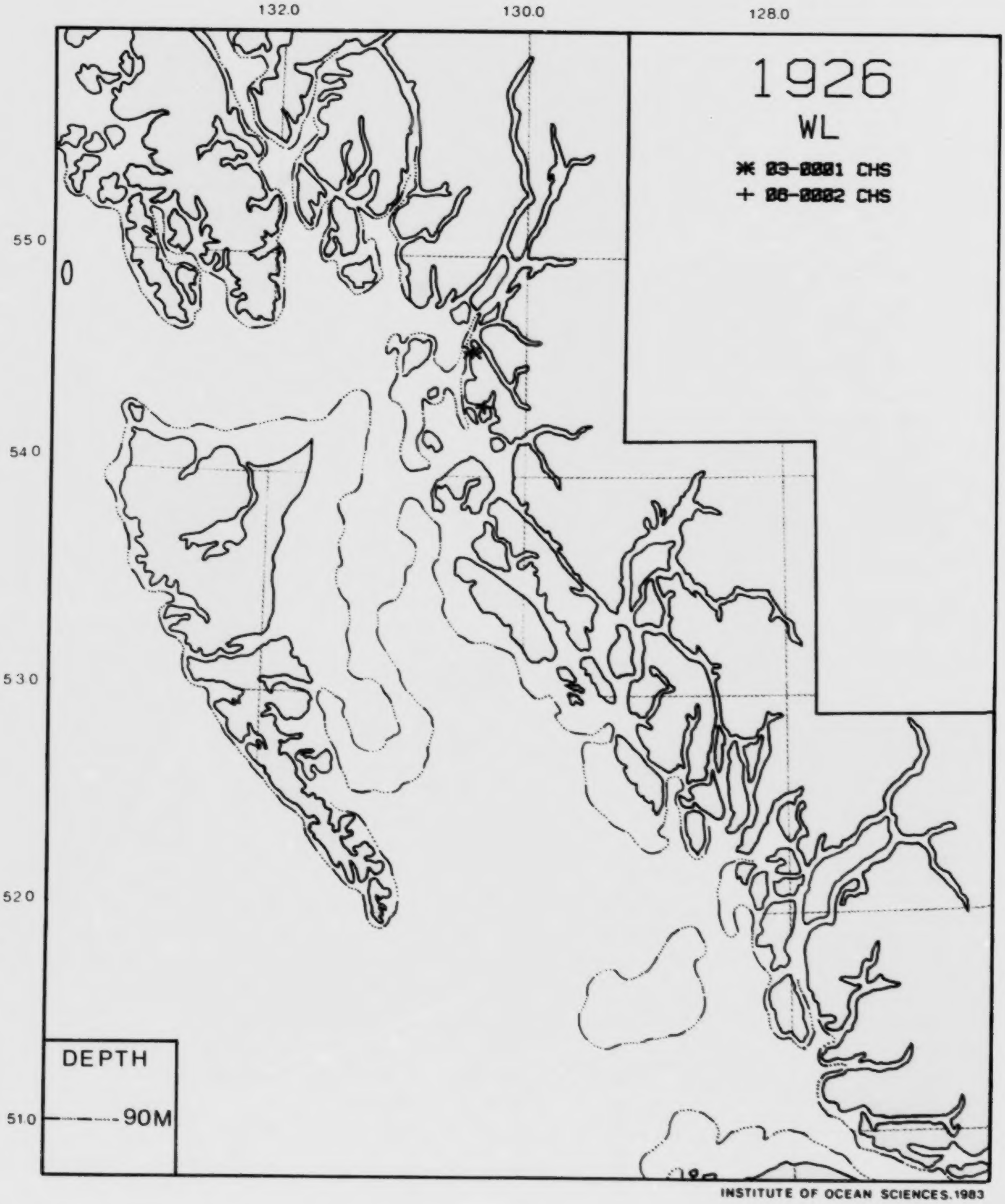
INSTITUTE OF OCEAN SCIENCES.1983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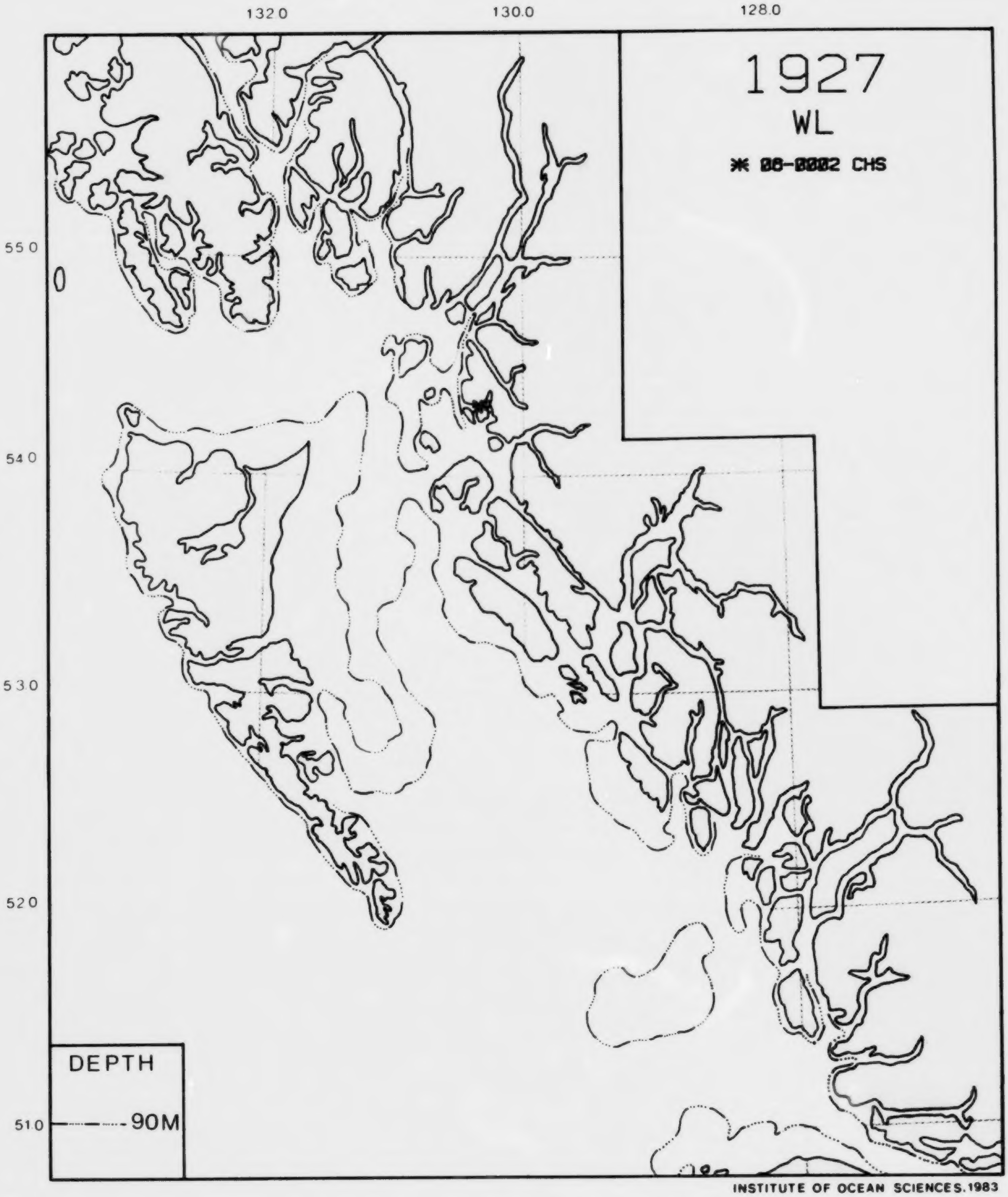
INSTITUTE OF OCEAN SCIENCES.1983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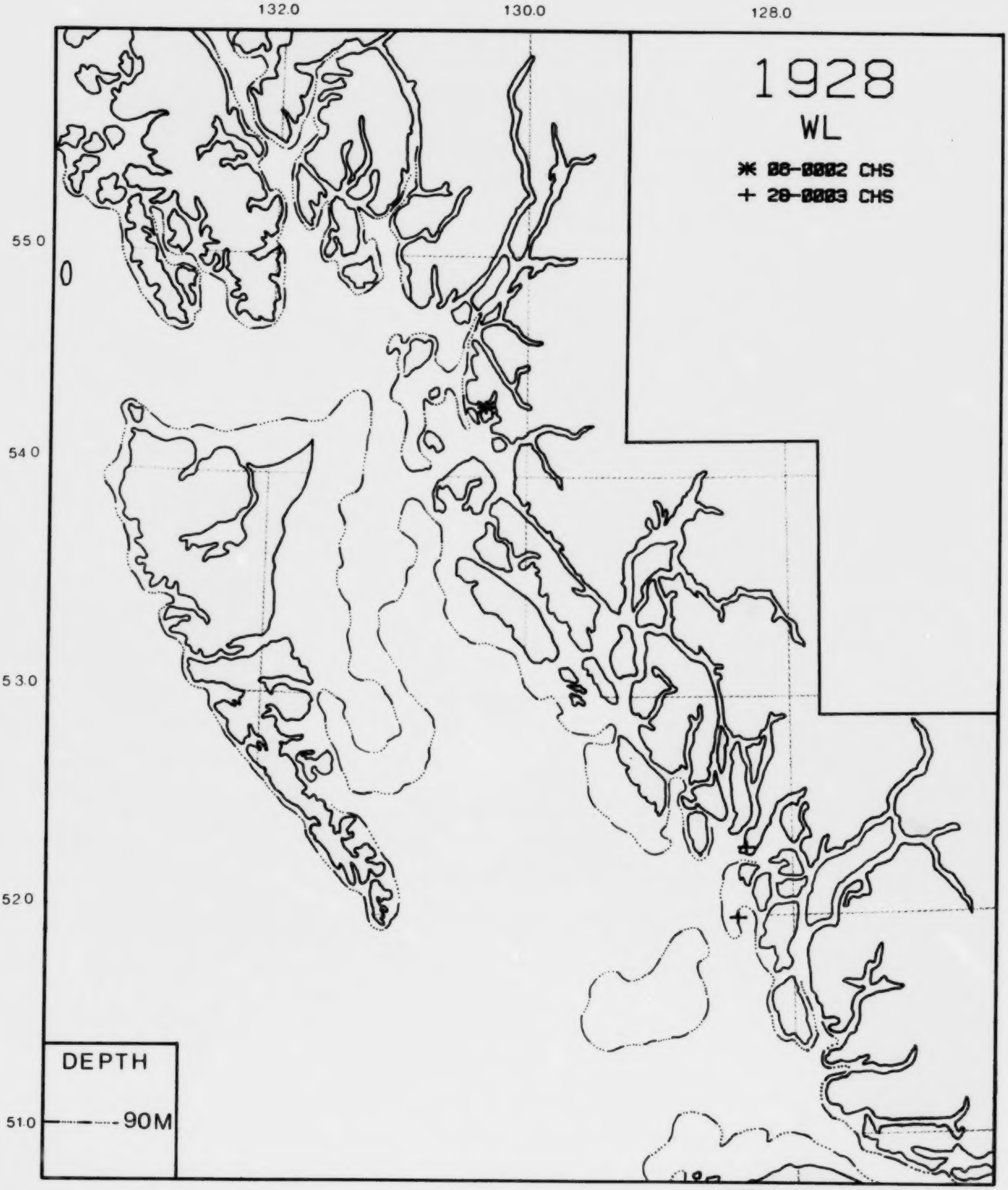
INSTITUTE OF OCEAN SCIENCES.1983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WL
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DEPTH
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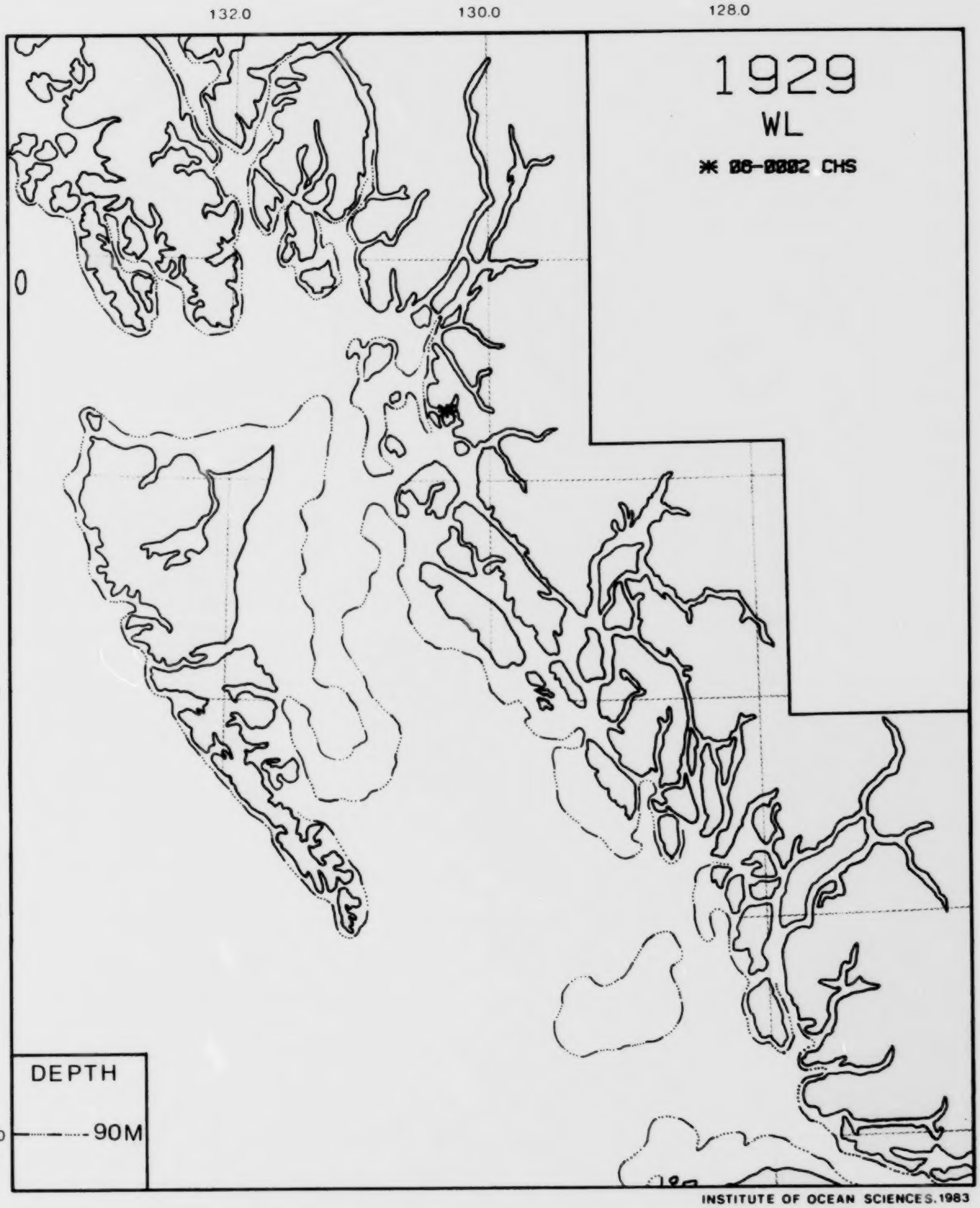
INSTITUTE OF OCEAN SCIENCES.1983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DEPTH
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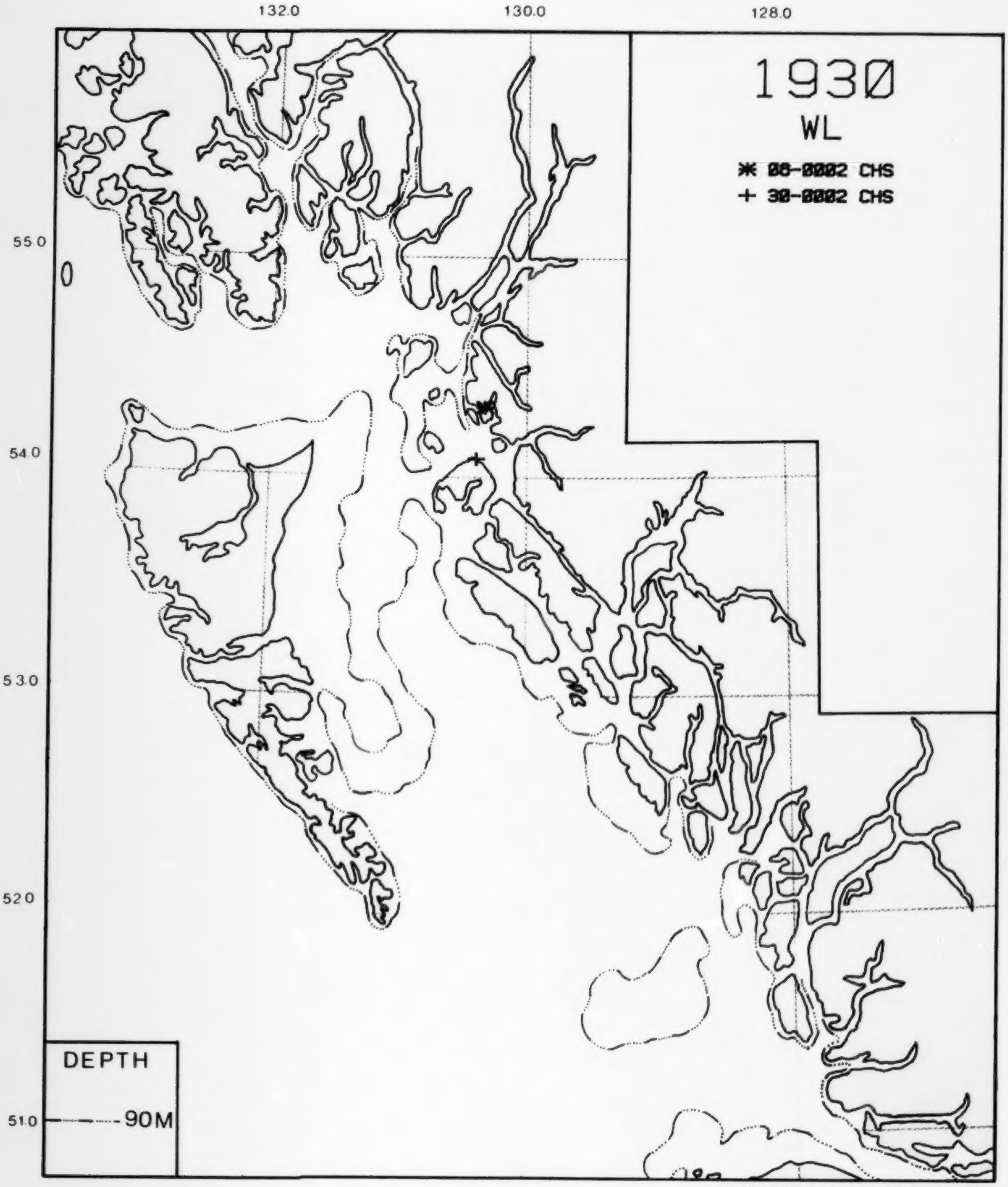
INSTITUTE OF OCEAN SCIENCES.1983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DEPTH
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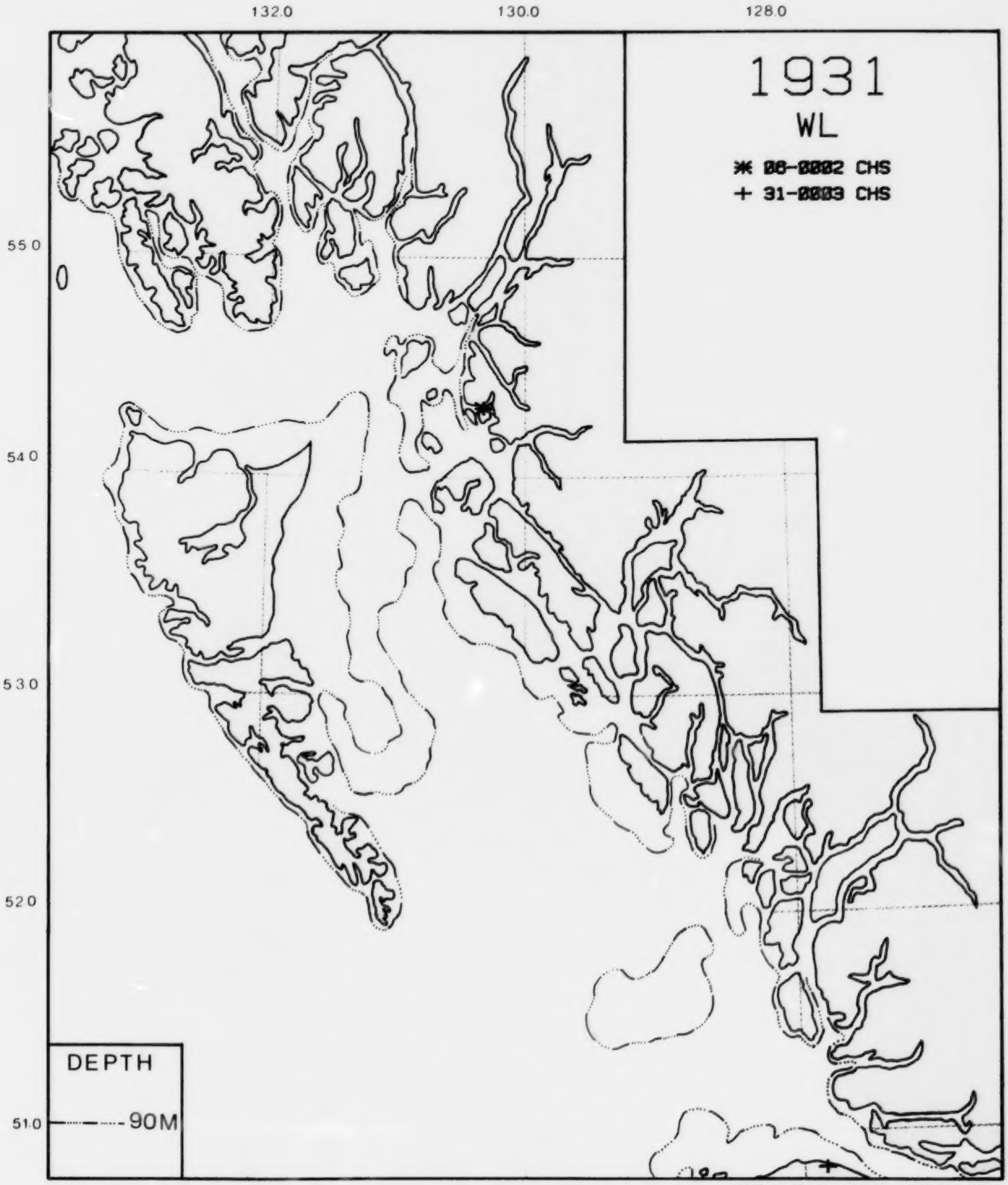
INSTITUTE OF OCEAN SCIENCES, 1983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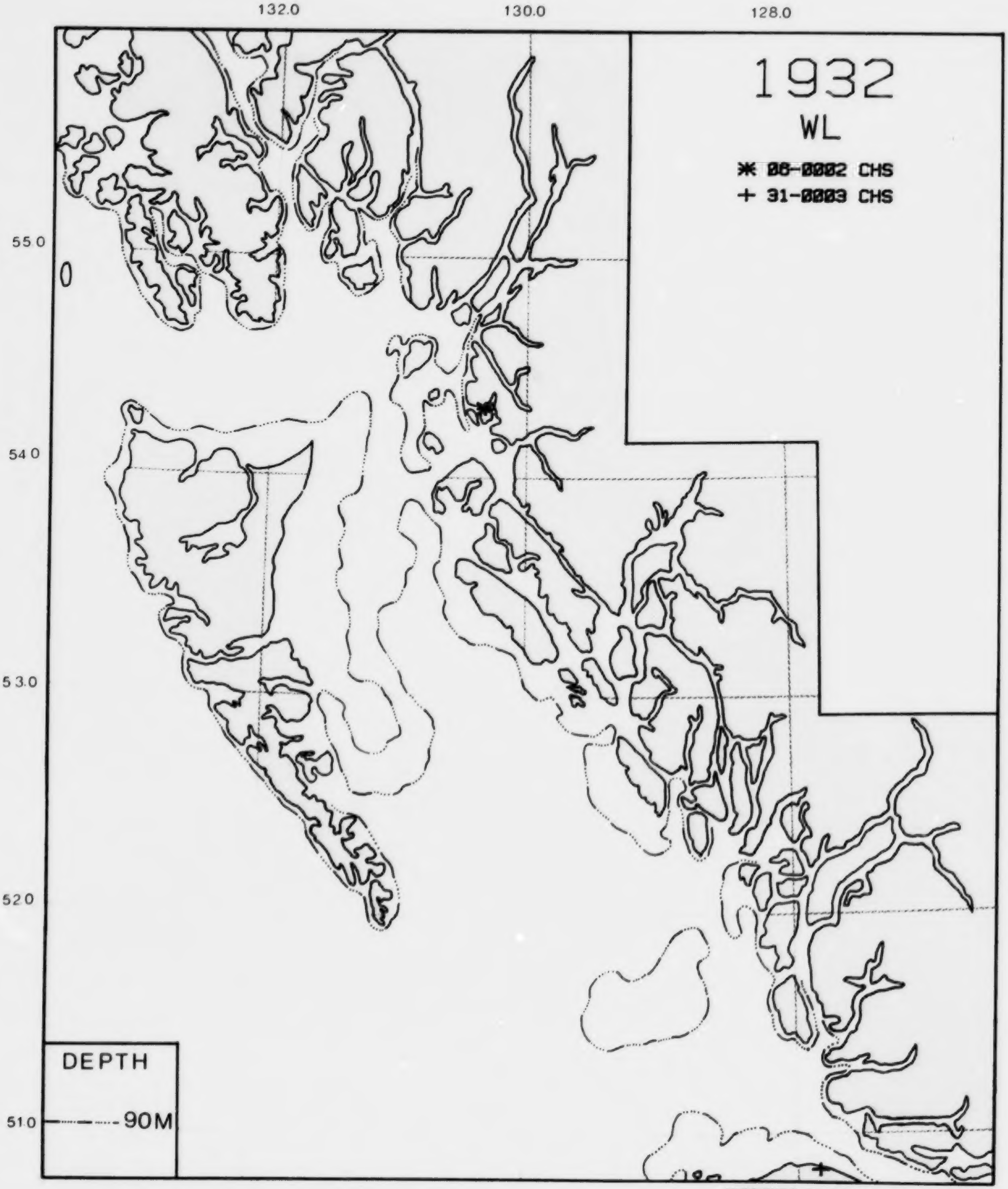
INSTITUTE OF OCEAN SCIENCES.1983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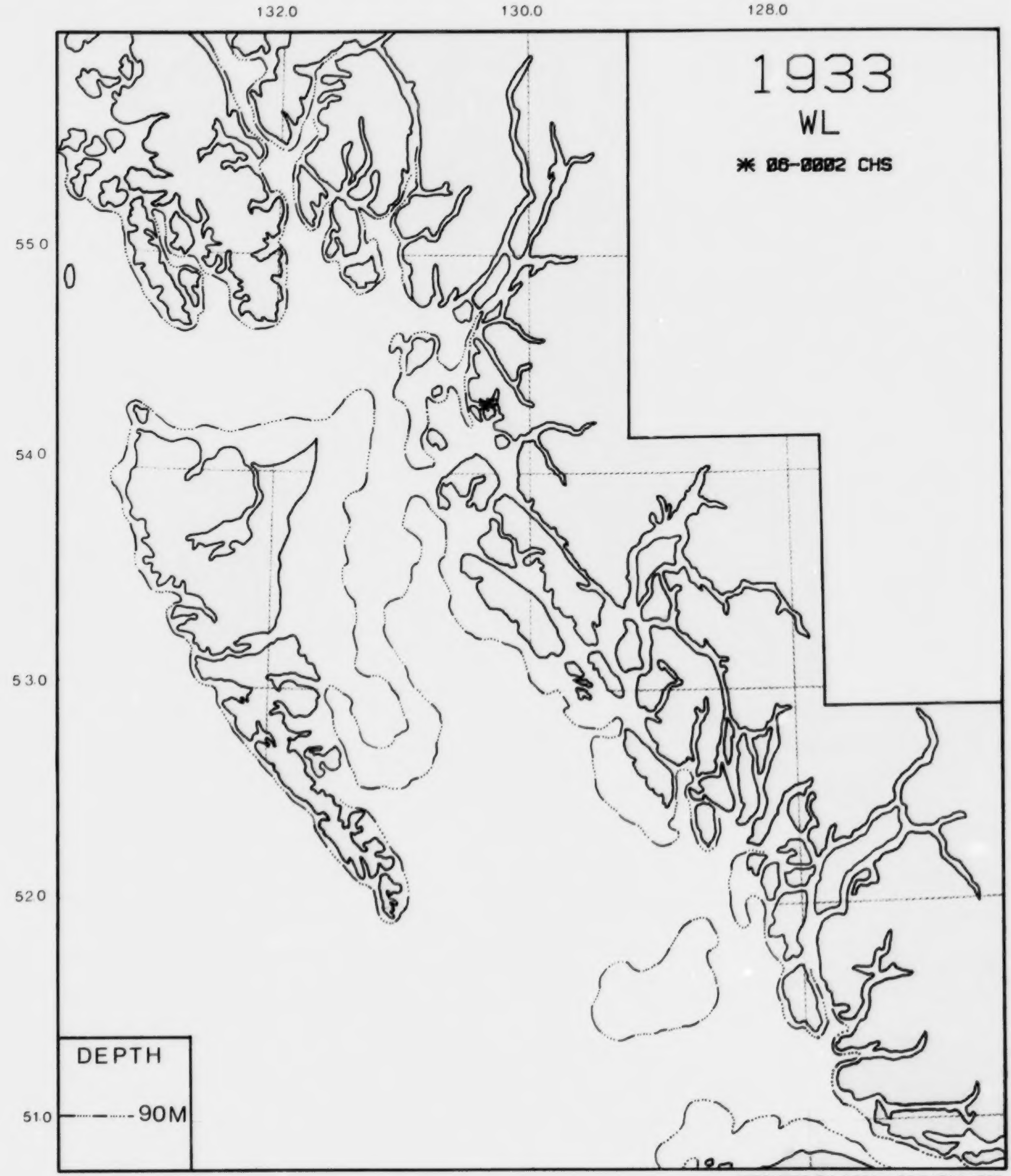
INSTITUTE OF OCEAN SCIENCES.1983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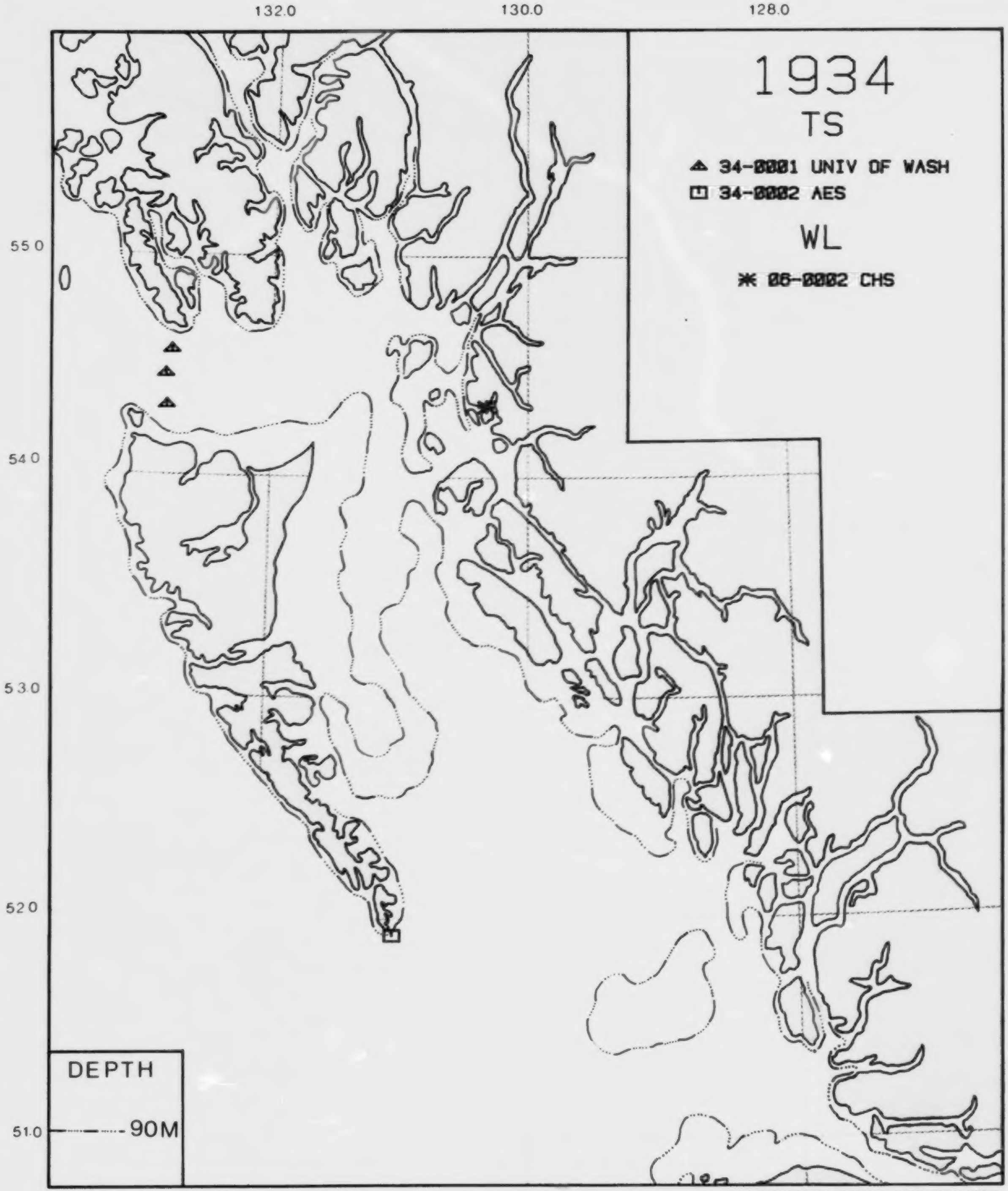
INSTITUTE OF OCEAN SCIENCES, 1983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✱ 06-0002 CHS
DEPTH
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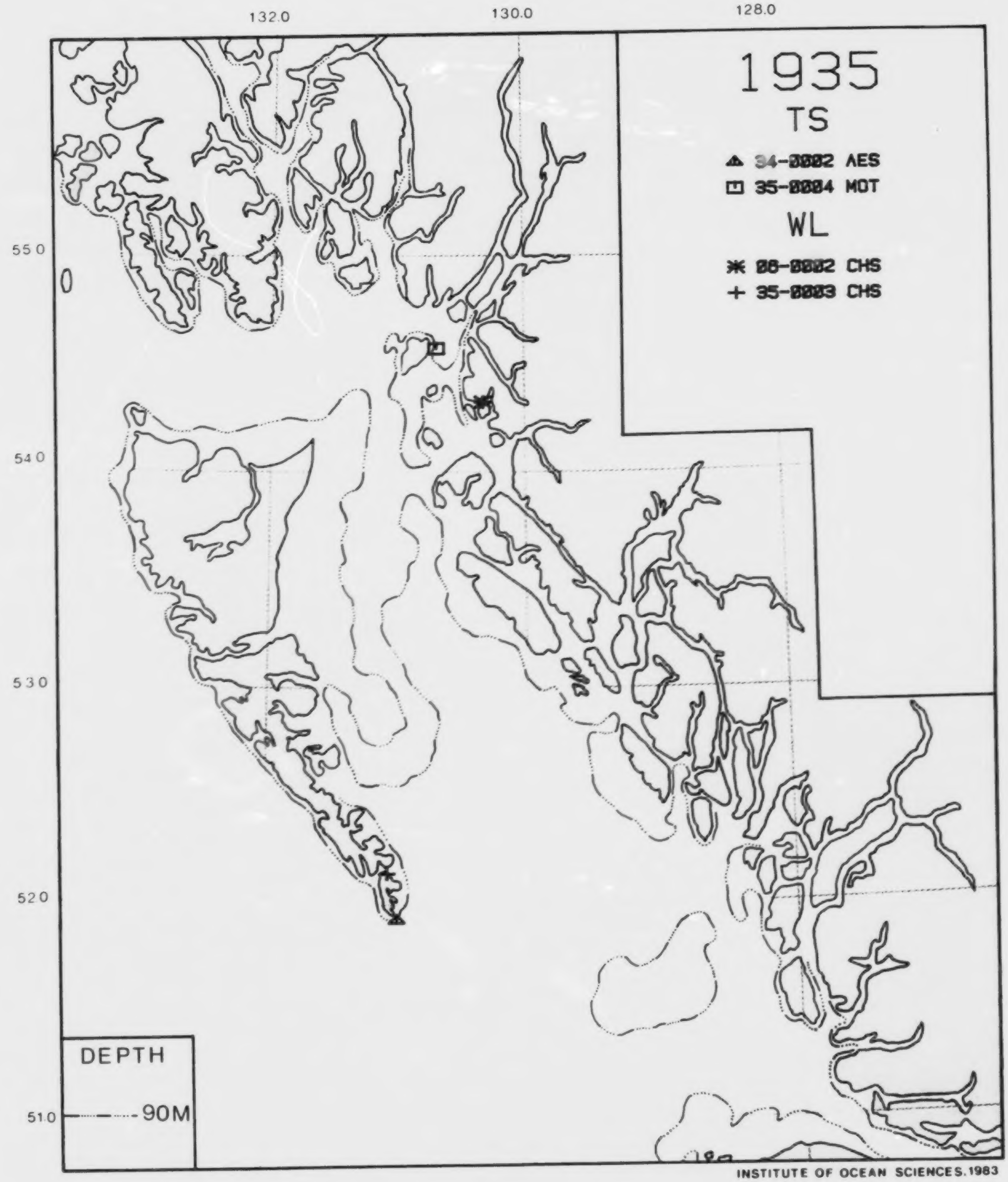
INSTITUTE OF OCEAN SCIENCES.1983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□ 35-0004 MOT
WL
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DEPTH
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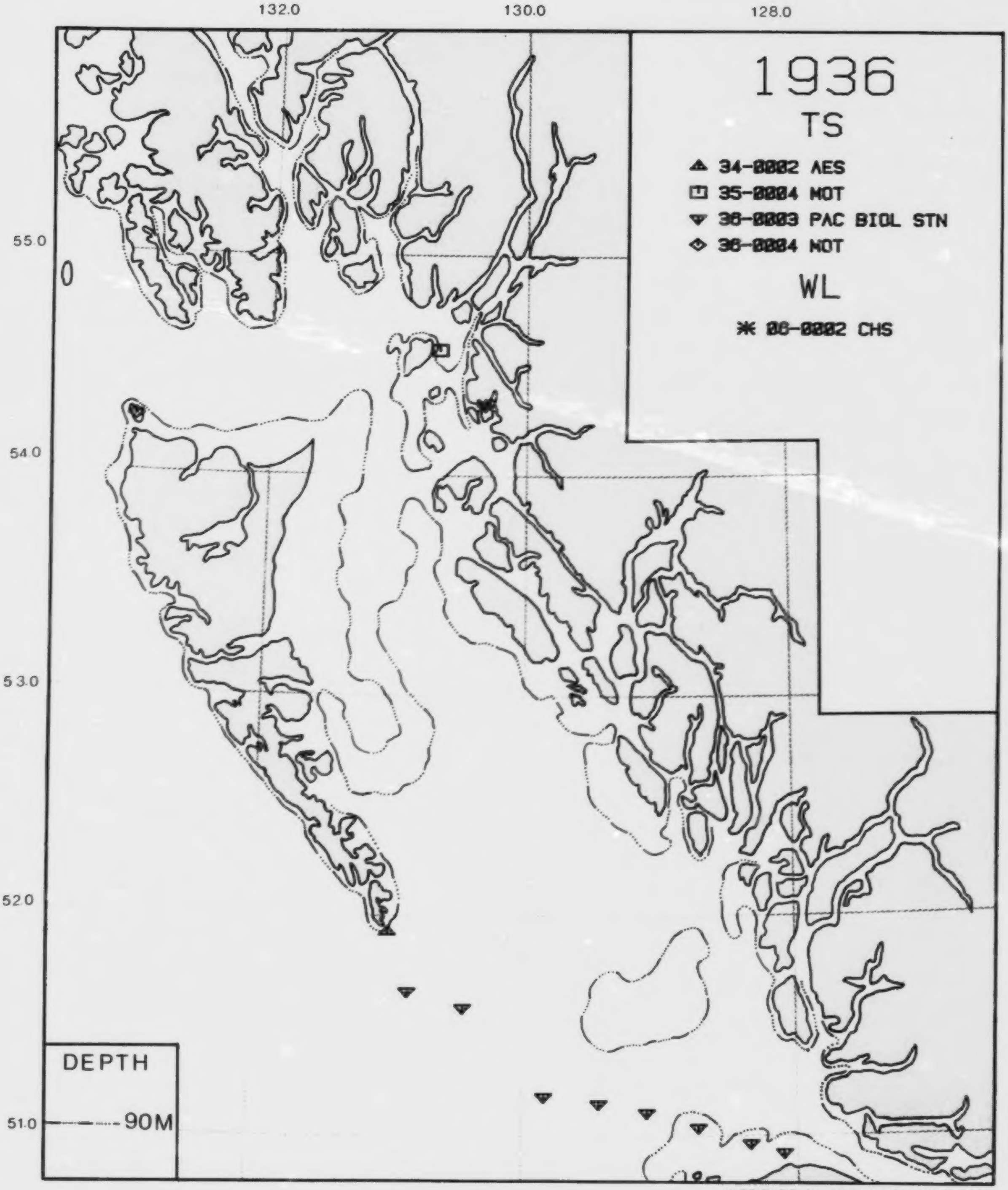
INSTITUTE OF OCEAN SCIENCES.1983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DEPTH
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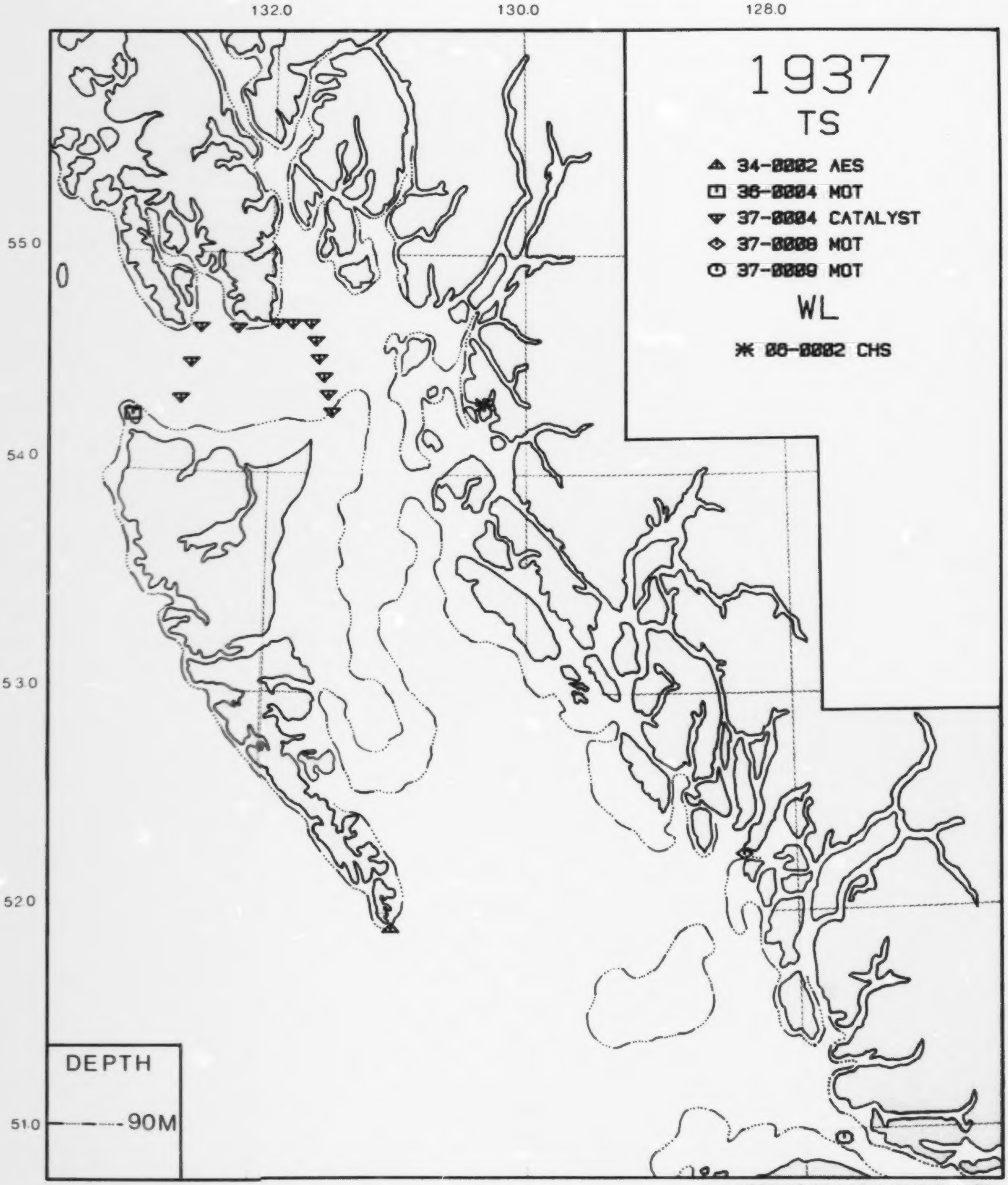
INSTITUTE OF OCEAN SCIENCES.1983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○ 37-0009 MOT
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DEPTH
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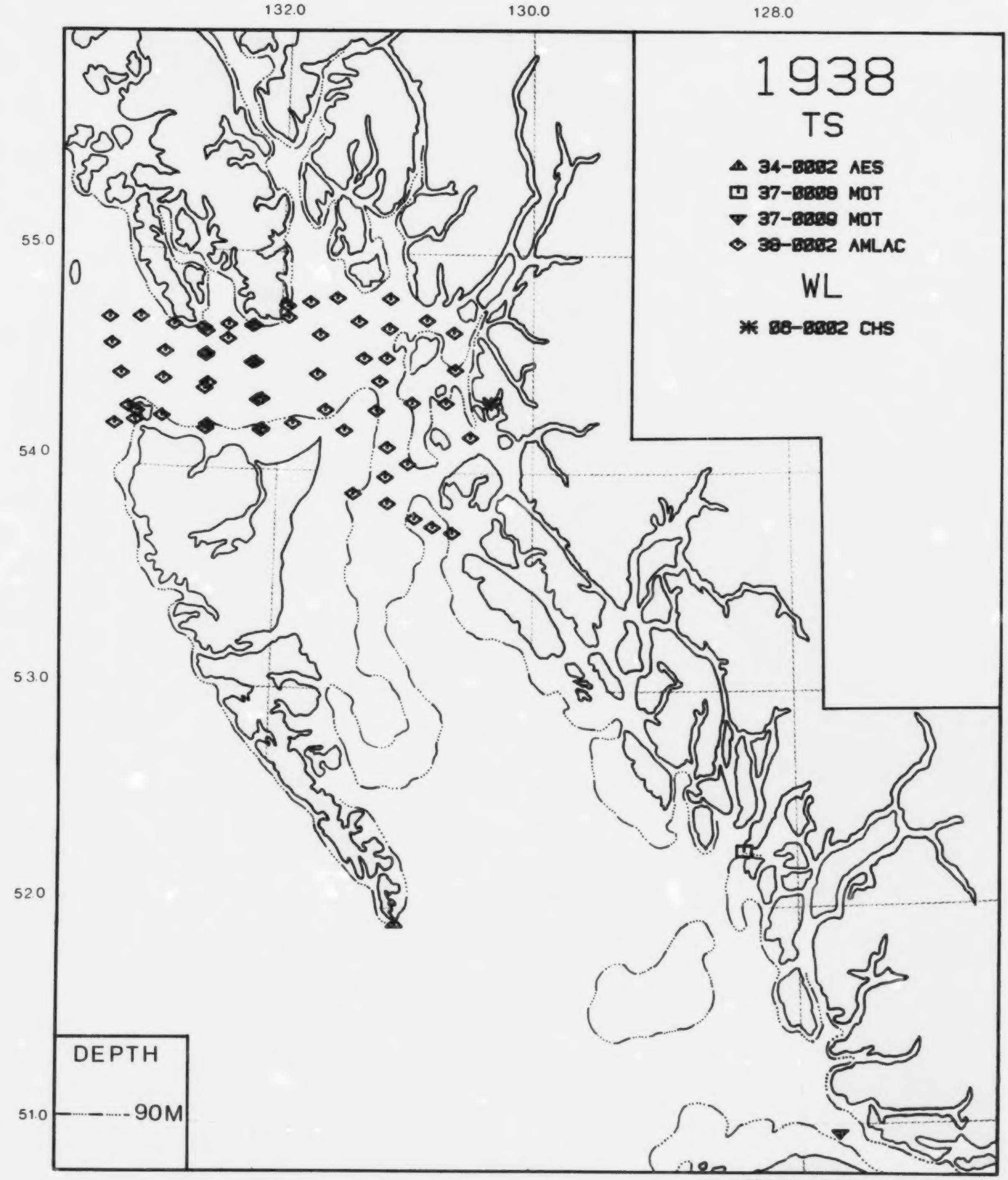
INSTITUTE OF OCEAN SCIENCES.1983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DEPTH
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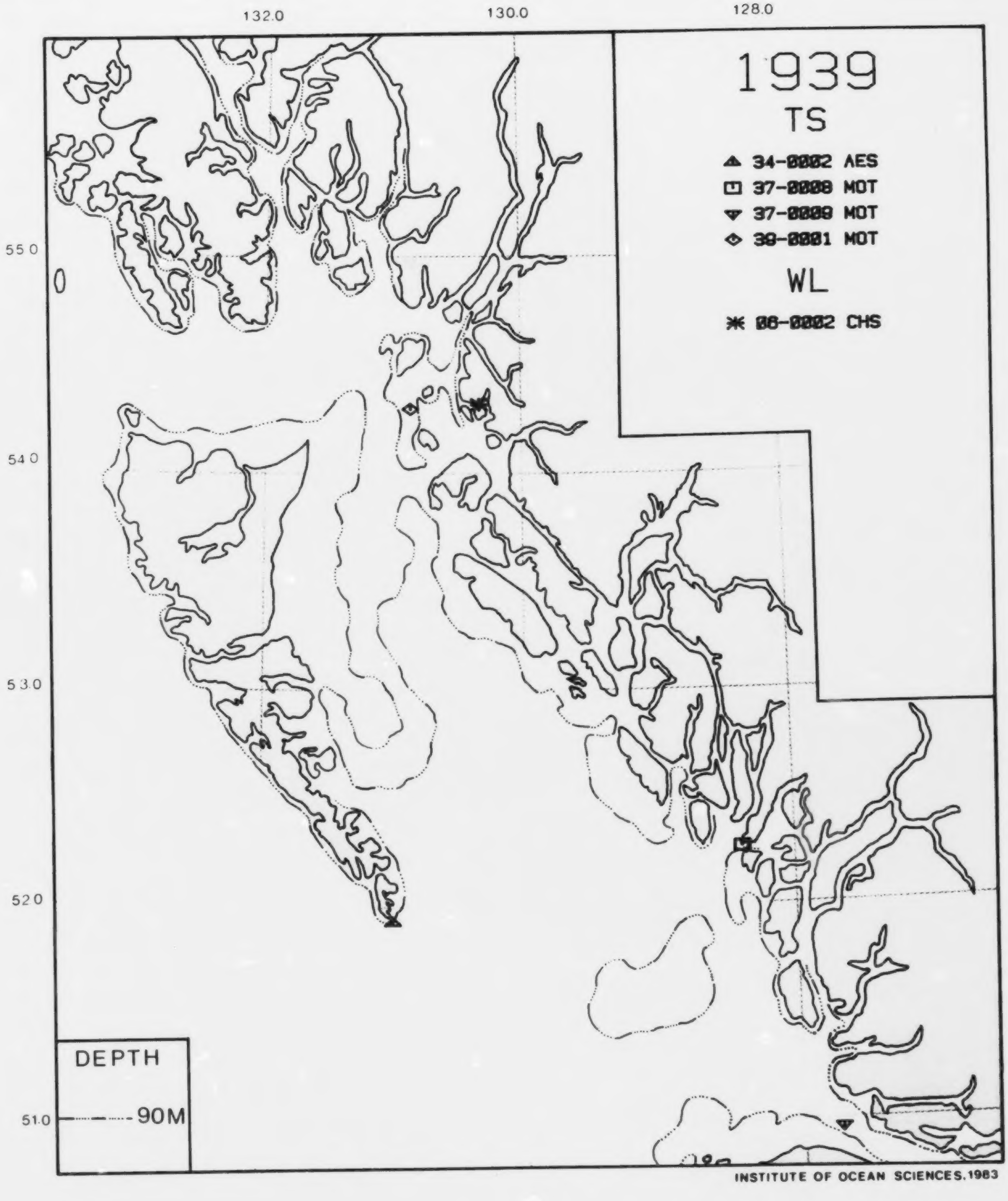
INSTITUTE OF OCEAN SCIENCES.1983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▼ 37-0009 MOT
◇ 38-0001 MOT
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DEPTH
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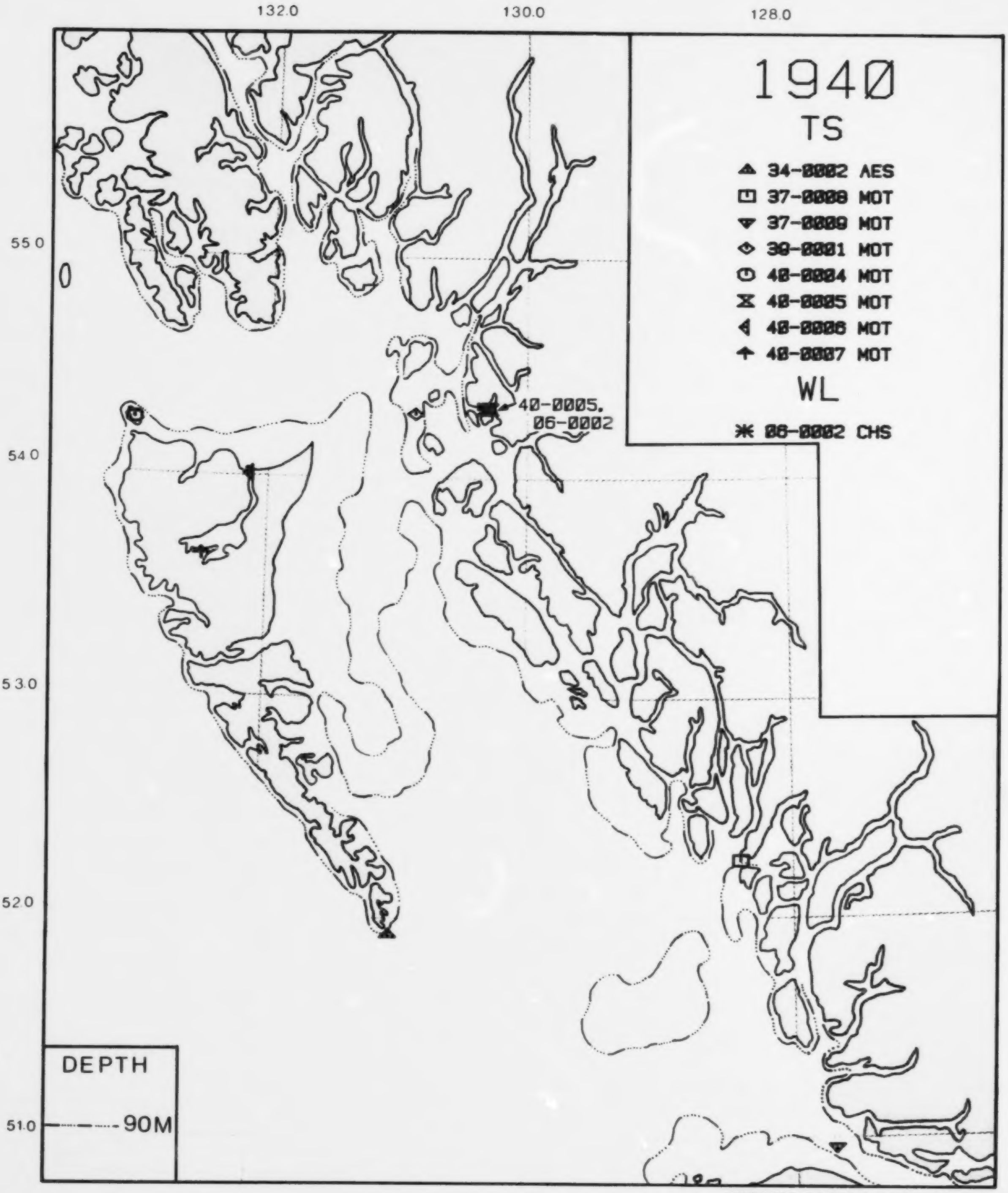
INSTITUTE OF OCEAN SCIENCES,1983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▼ 37-0009 MOT
◇ 39-0001 MOT
○ 40-0004 MOT
⧗ 40-0005 MOT
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↑ 40-0007 MOT
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06-0002
DEPTH
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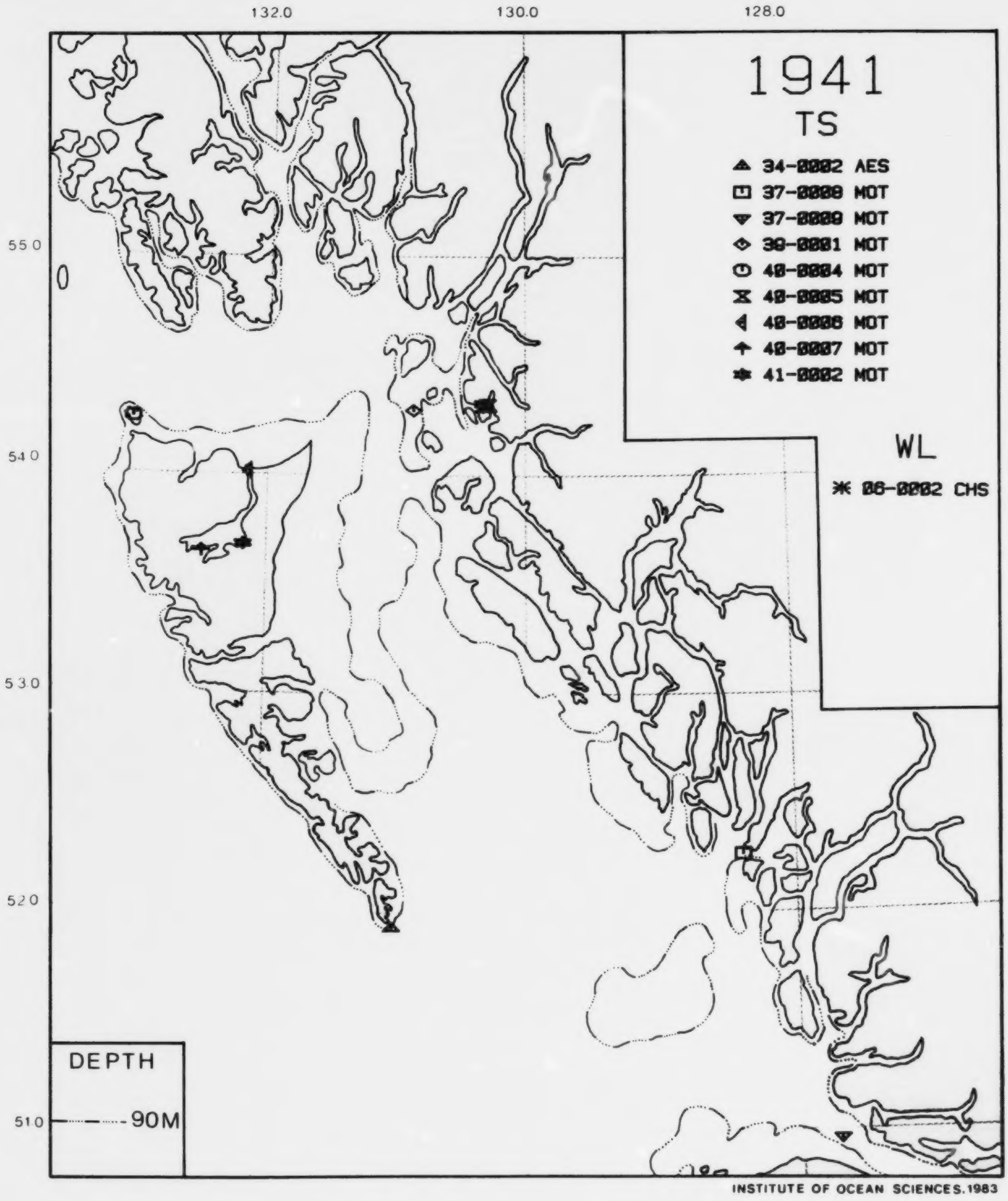
INSTITUTE OF OCEAN SCIENCES.1983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◇ 38-0001 MOT
○ 40-0004 MOT
⧗ 40-0005 MOT
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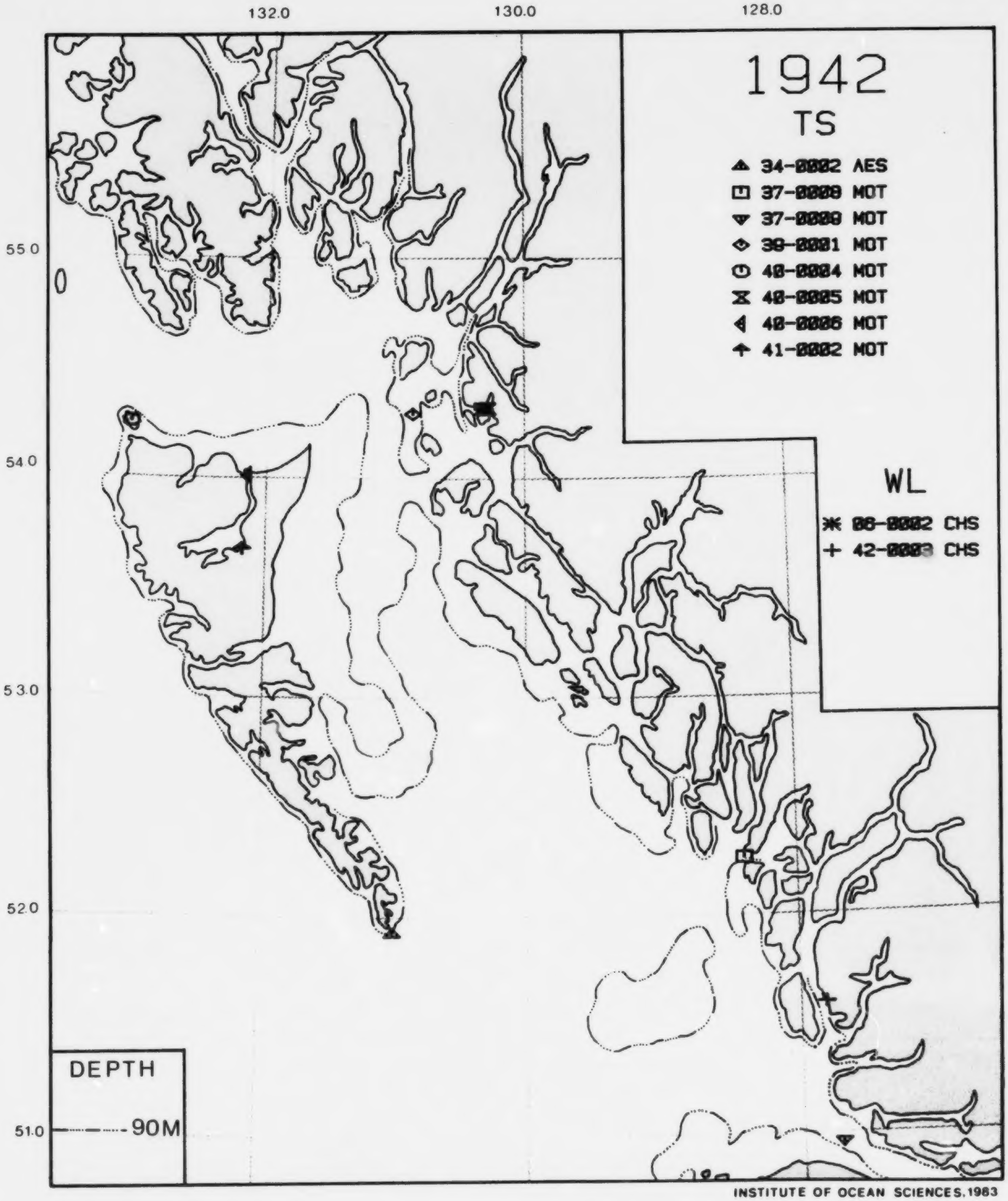
✱ 41-0002 MOT
WL
✳ 06-0002 CHS
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983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▼ 37-0009 MOT
◇ 39-0001 MOT
○ 40-0004 MOT
⧗ 40-0005 MOT
◁ 40-0006 MOT
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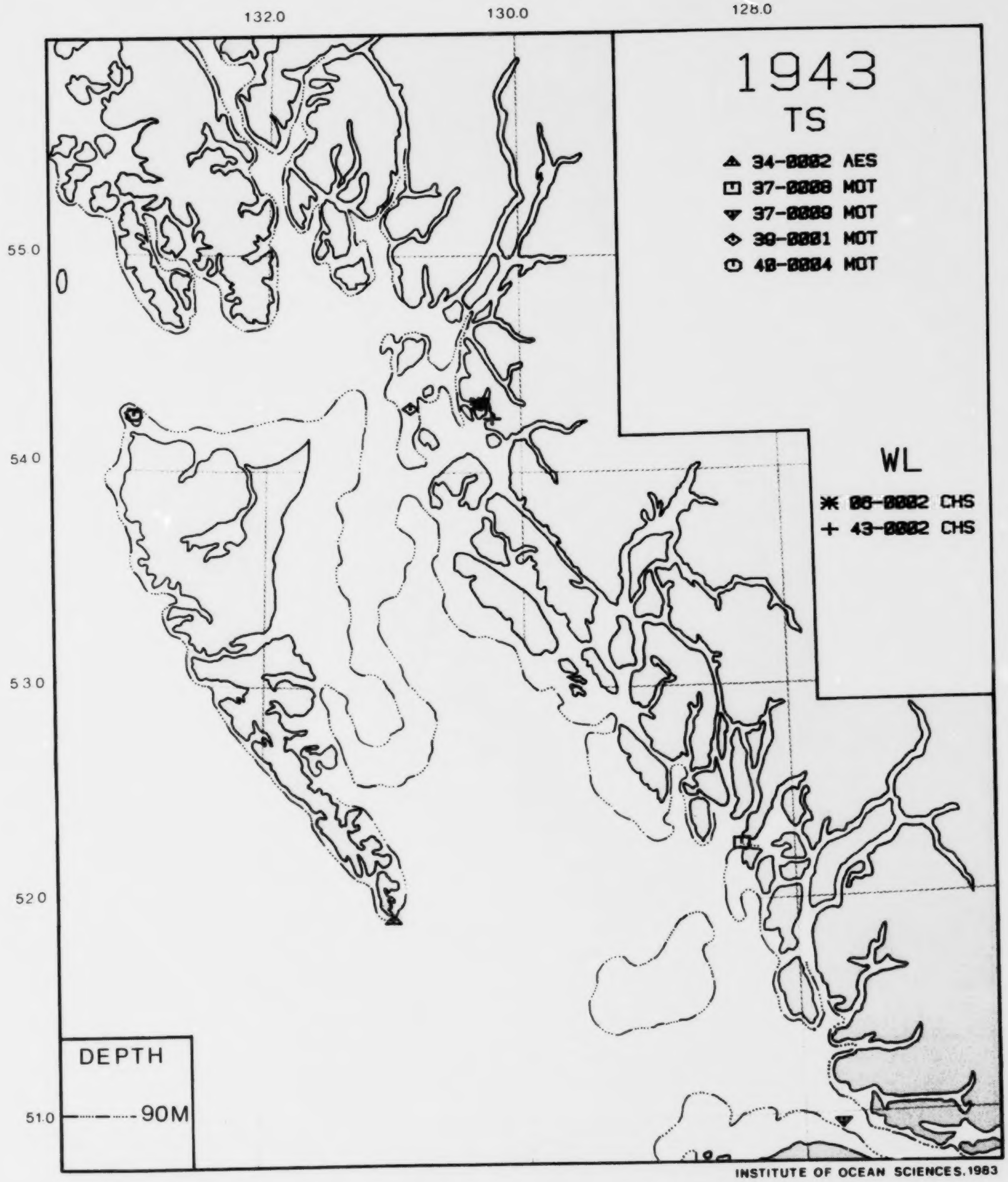
WL
✳ 08-0002 CHS
+ 42-0003 CHS
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983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▼ 37-0009 MOT
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WL
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+ 43-0002 CHS
DEPTH
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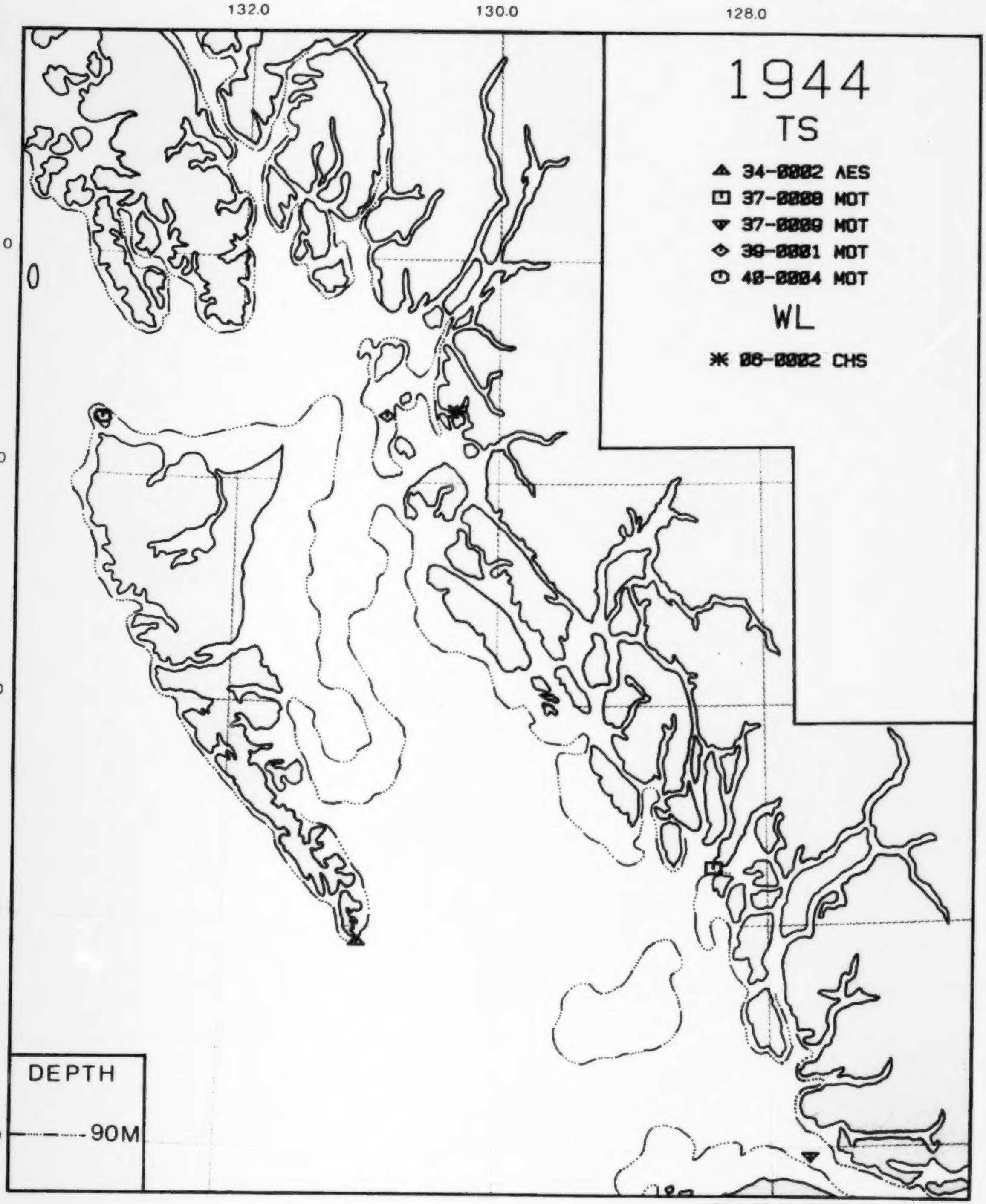
INSTITUTE OF OCEAN SCIENCES.1983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○ 40-0004 MOT
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DEPTH
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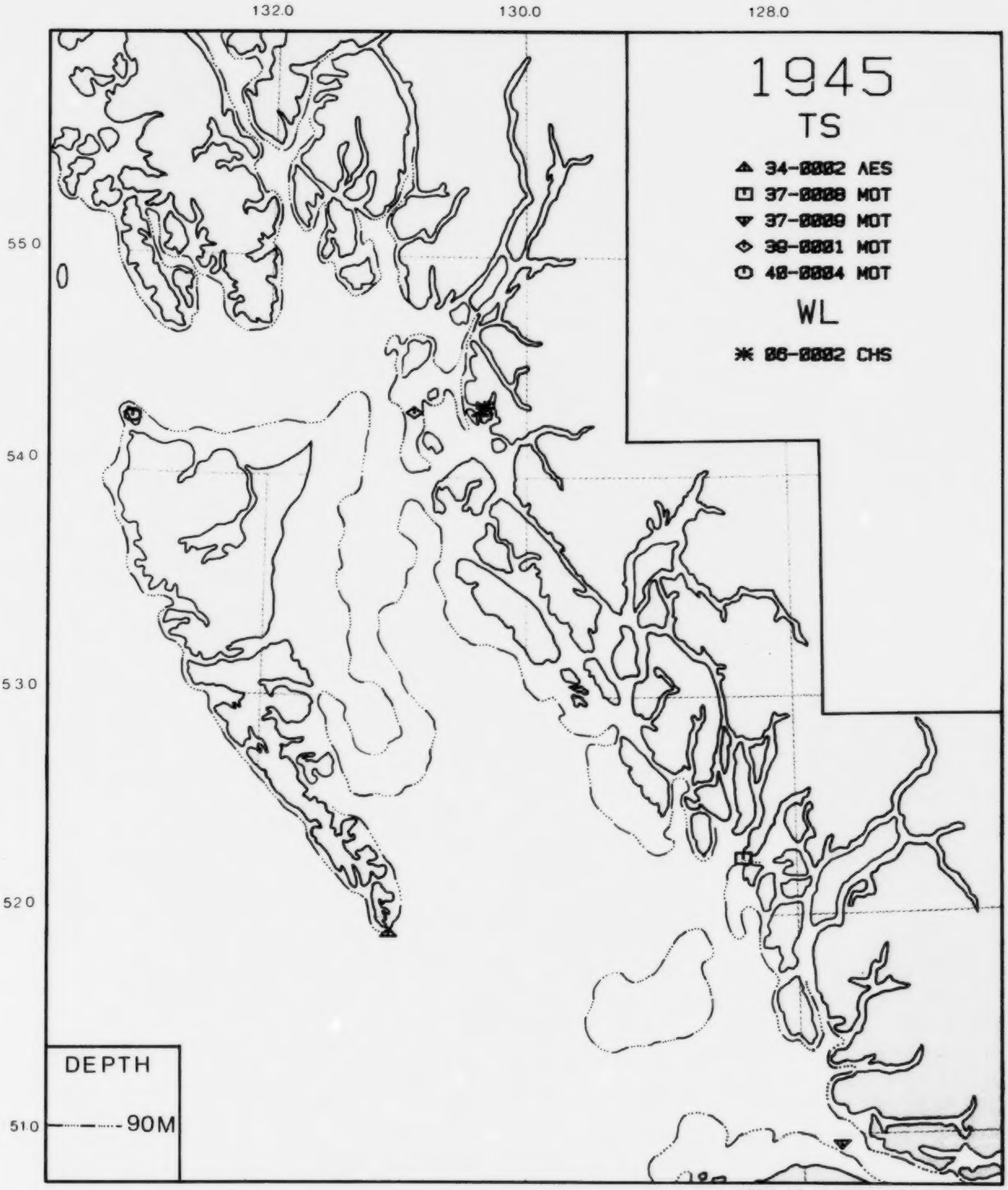
INSTITUTE OF OCEAN SCIENCES, 1983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▼ 37-0009 MOT
◇ 39-0001 MOT
○ 40-0004 MOT
WL
✳ 06-0002 CHS
DEPTH
90M

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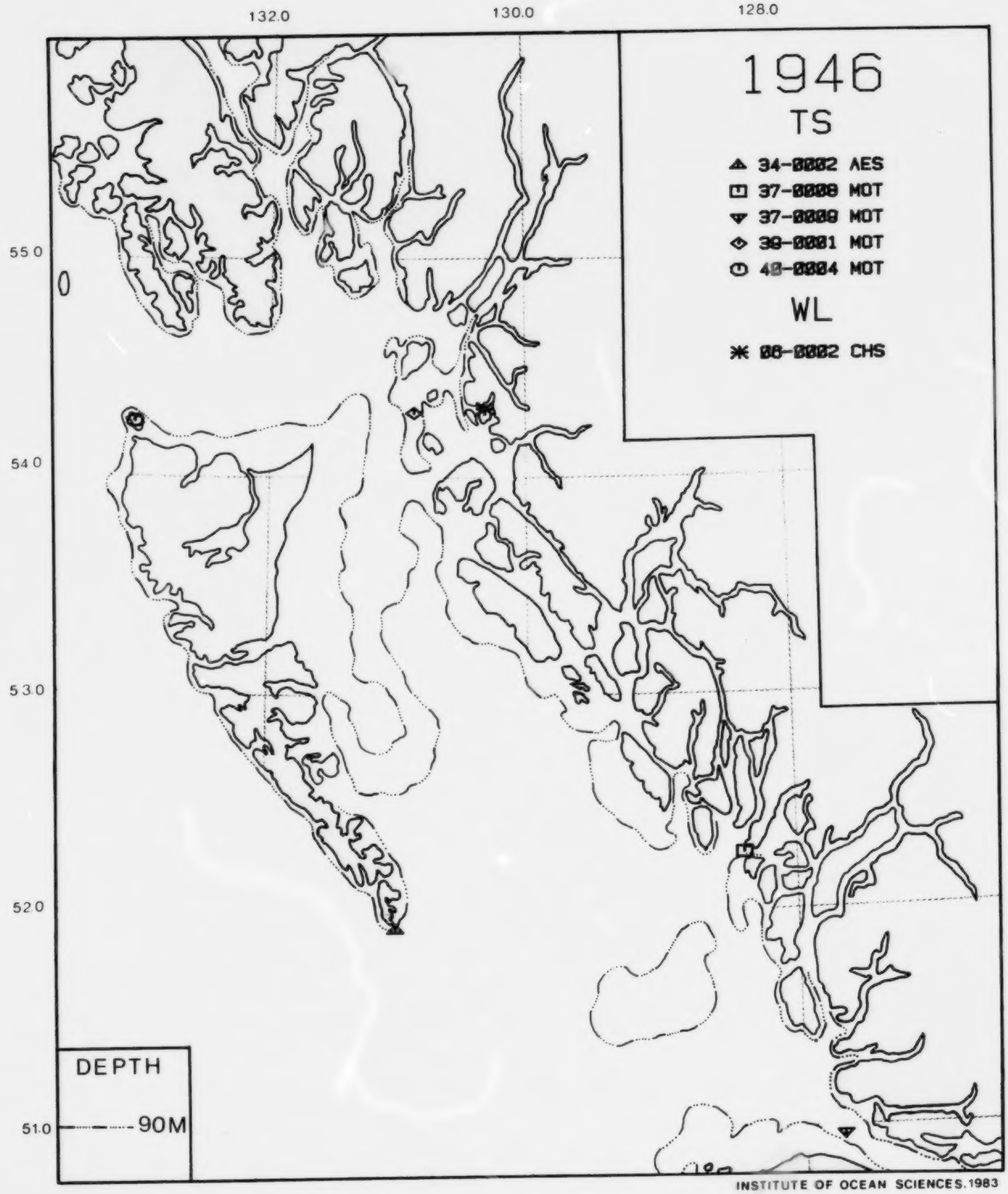
132.0
130.0
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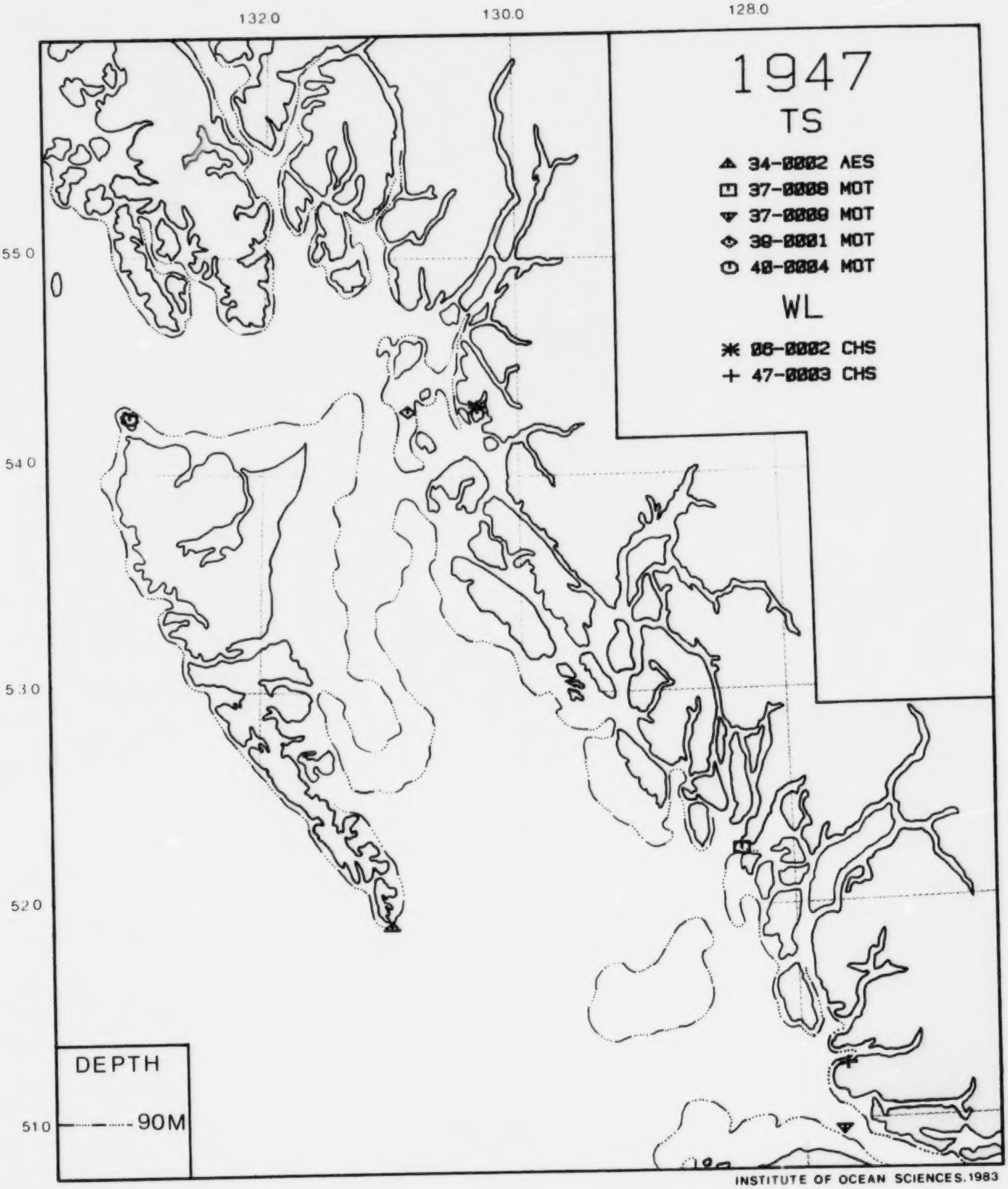
54.0
53.0
52.0
51.0
1946
TS
▲ 34-0002 AES
☐ 37-0008 MOT
▼ 37-0009 MOT
◇ 38-0001 MOT
○ 40-0004 MOT
WL
✳ 08-0002 CHS
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983


132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1947
TS
▲ 34-0002 AES
□ 37-0008 MOT
▼ 37-0009 MOT
◇ 38-0001 MOT
⊙ 40-0004 MOT
WL
✳ 06-0002 CHS
+ 47-0003 CHS
DEPTH
90M

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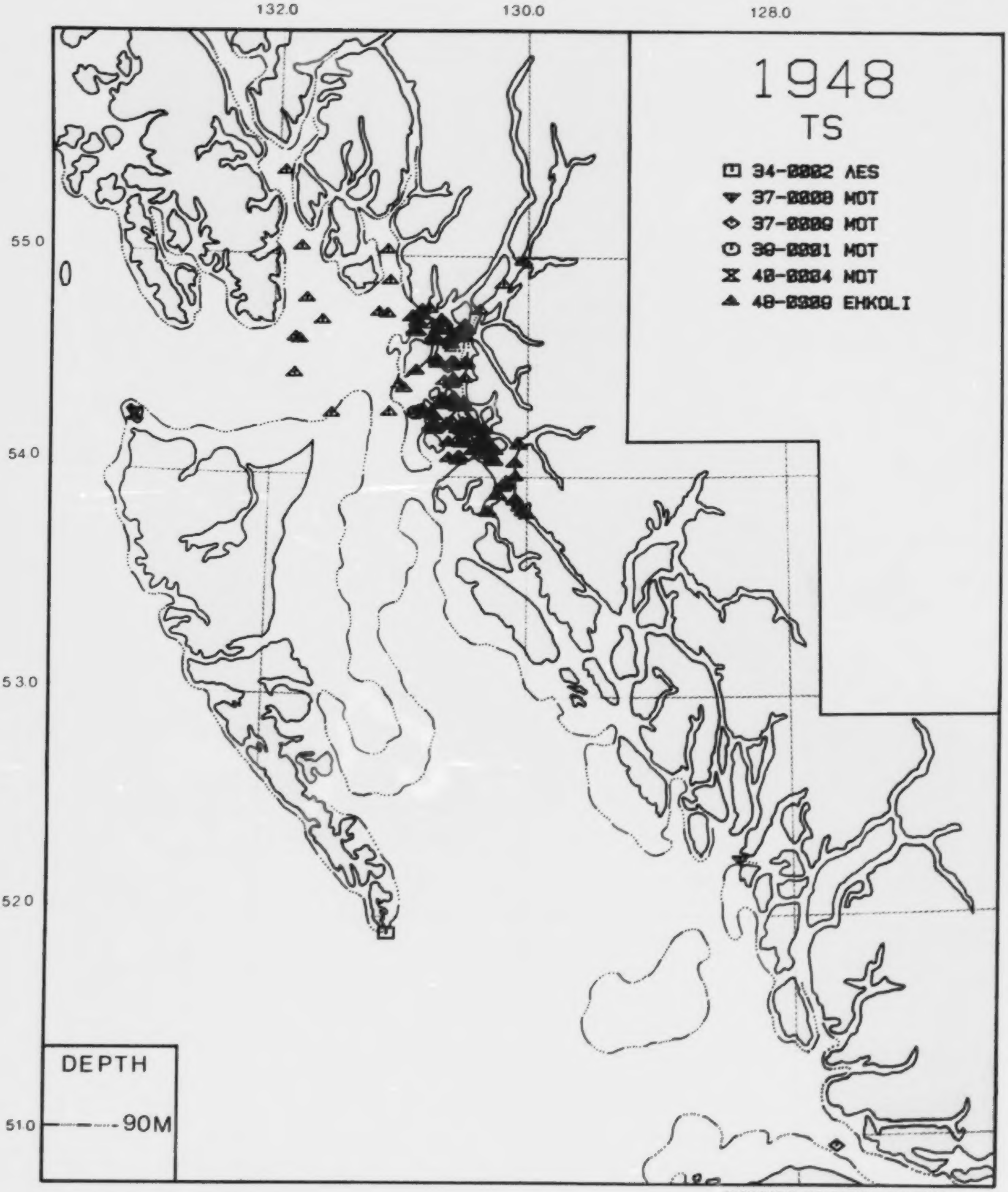
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53.0
52.0
51.0
1948
TS
34-0002 AES
37-0008 MOT
37-0009 MOT
38-0001 MOT
40-0004 MOT
48-0009 EHKOLI
DEPTH
90M

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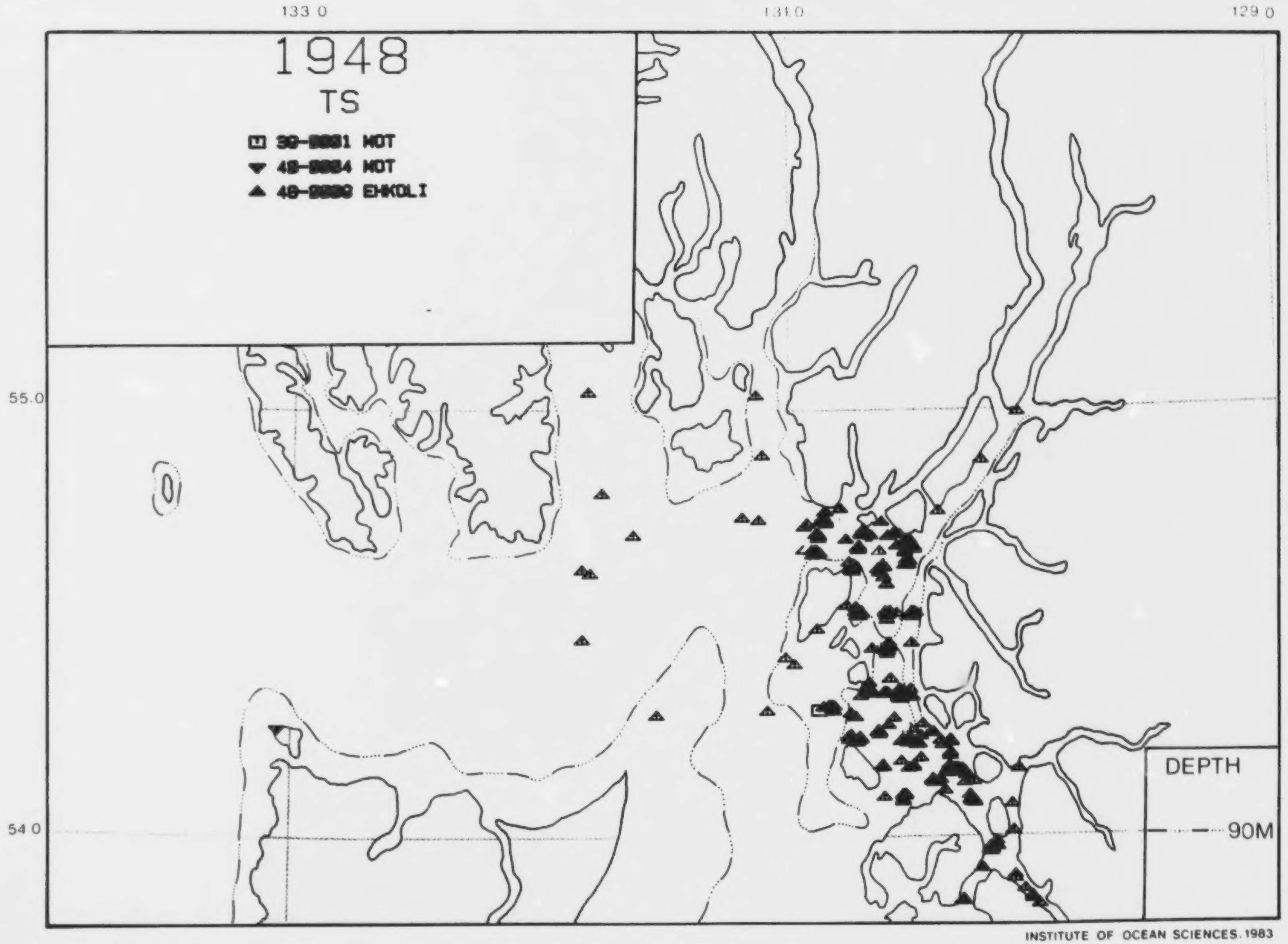
1948
TS
⊡ 30-0001 MOT
▼ 48-0004 MOT
▲ 48-0009 EHKOLI
DEPTH
90M
133 0
131.0
129 0
55.0
54 0

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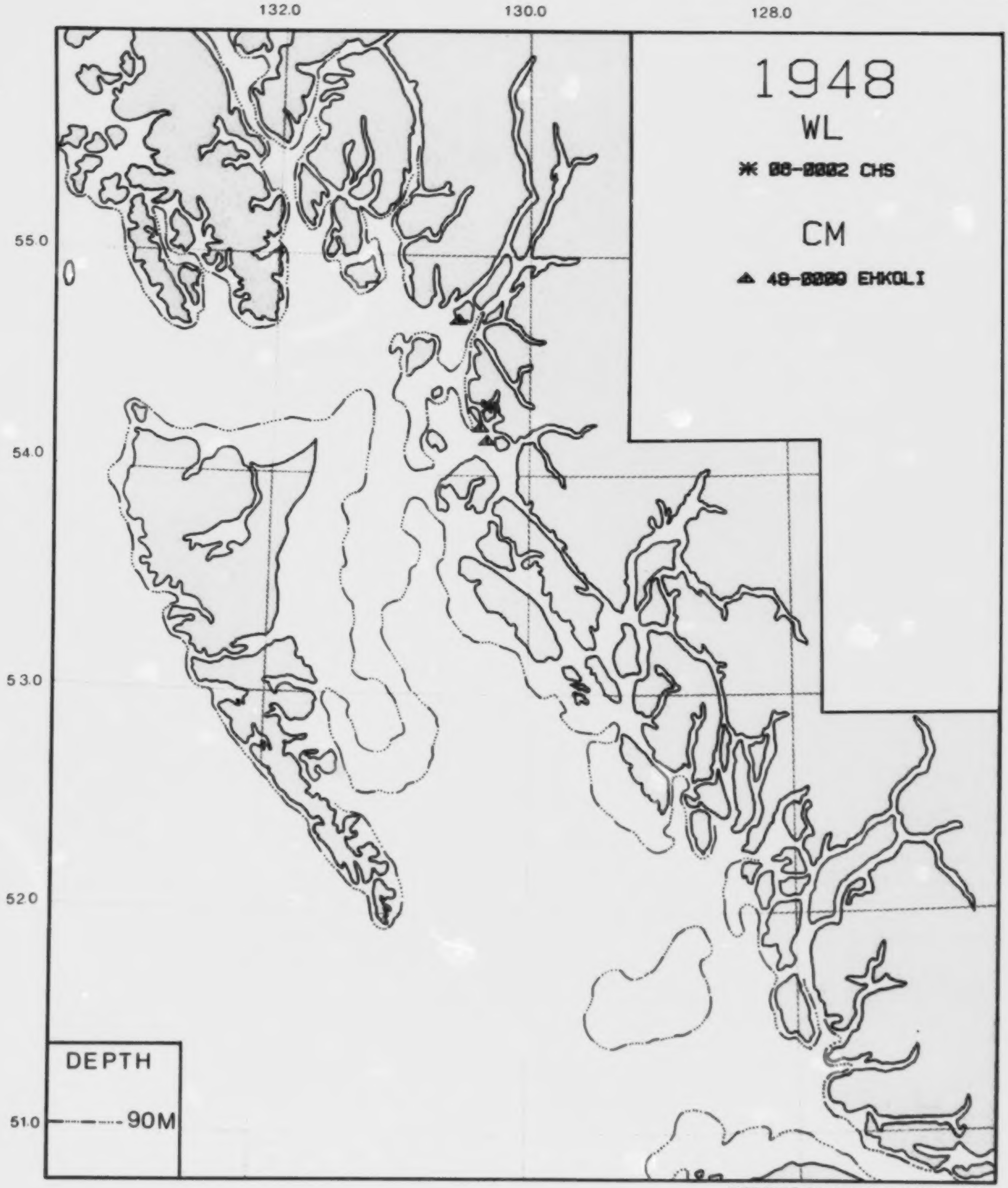
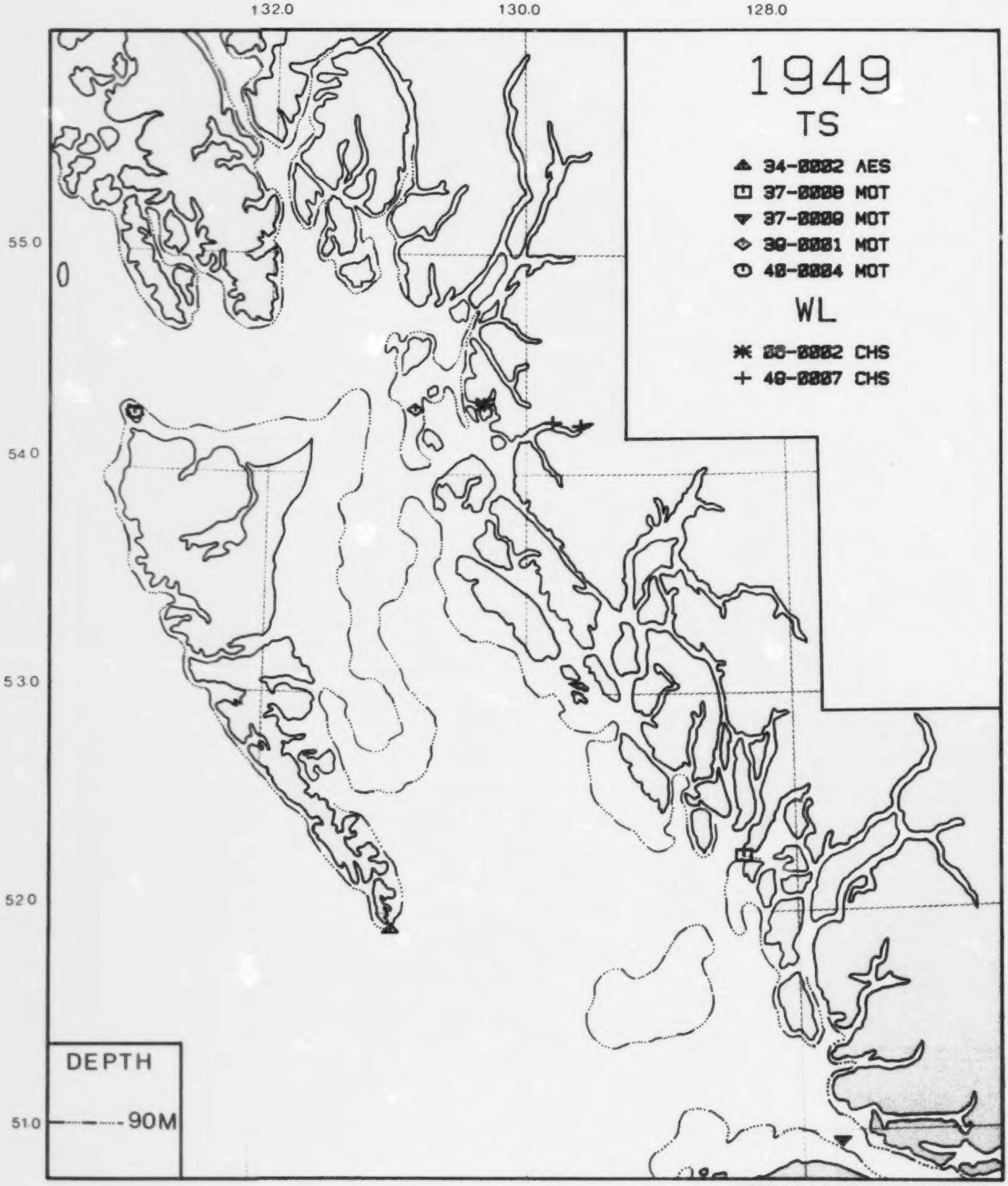

132.0
130.0
128.0
1948
WL
✱ 00-0002 CHS
CM
▲ 48-0000 EHKOLI
55.0
54.0
53.0
52.0
51.0
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES, 1983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55.0
54.0
53.0
52.0
51.0
1949
TS
▲ 34-0002 AES
⊡ 37-0008 MOT
▼ 37-0009 MOT
◇ 39-0001 MOT
⊙ 40-0004 MOT
WL
✳ 08-0002 CHS
+ 40-0007 CHS
DEPTH
90M

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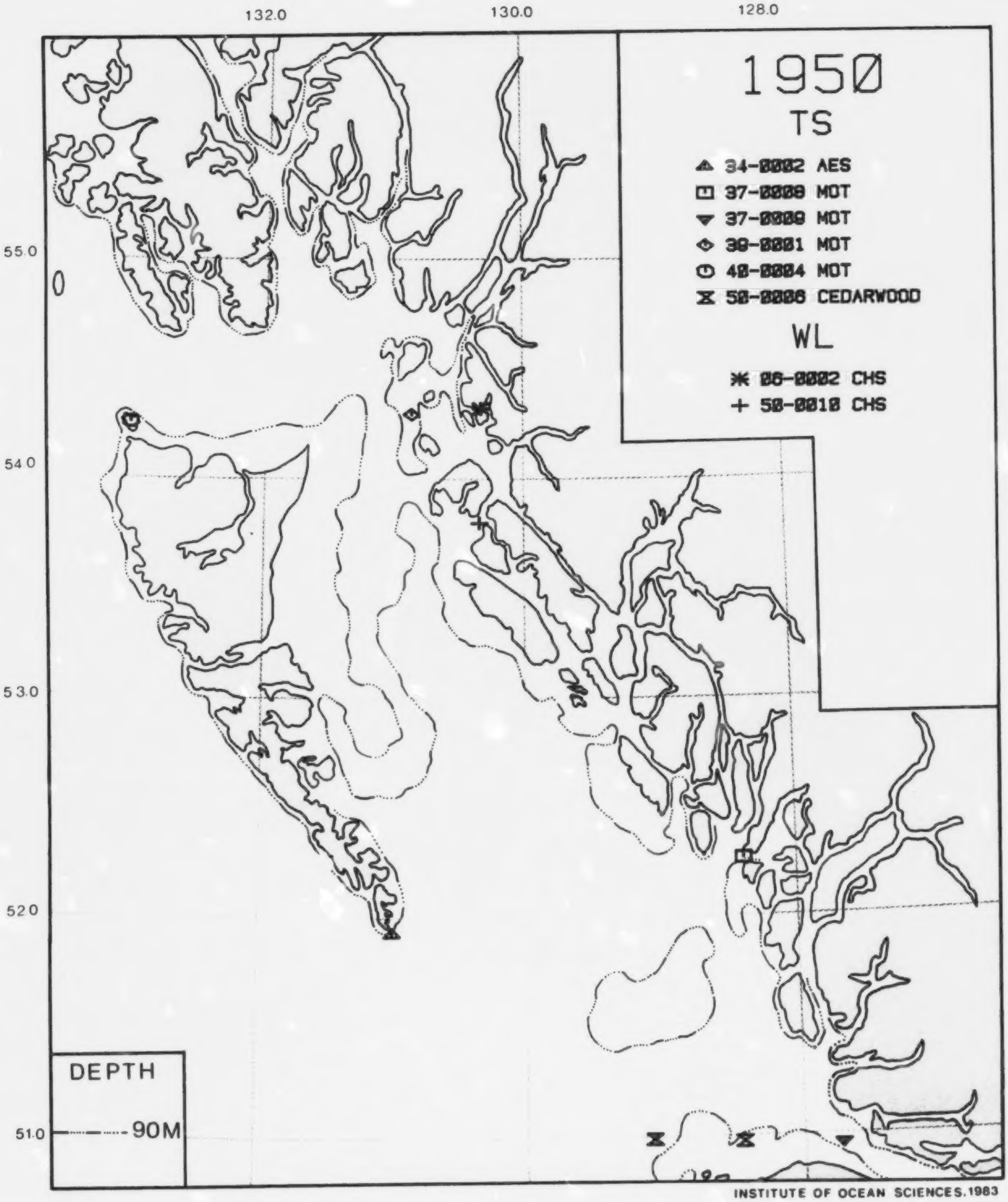
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130.0
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55.0
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52.0
51.0
1950
TS
▲ 34-0002 AES
□ 37-0008 MOT
▼ 37-0009 MOT
◇ 38-0001 MOT
○ 40-0004 MOT
⧗ 50-0006 CEDARWOOD
WL
✳ 06-0002 CHS
+ 50-0010 CHS
DEPTH
90M

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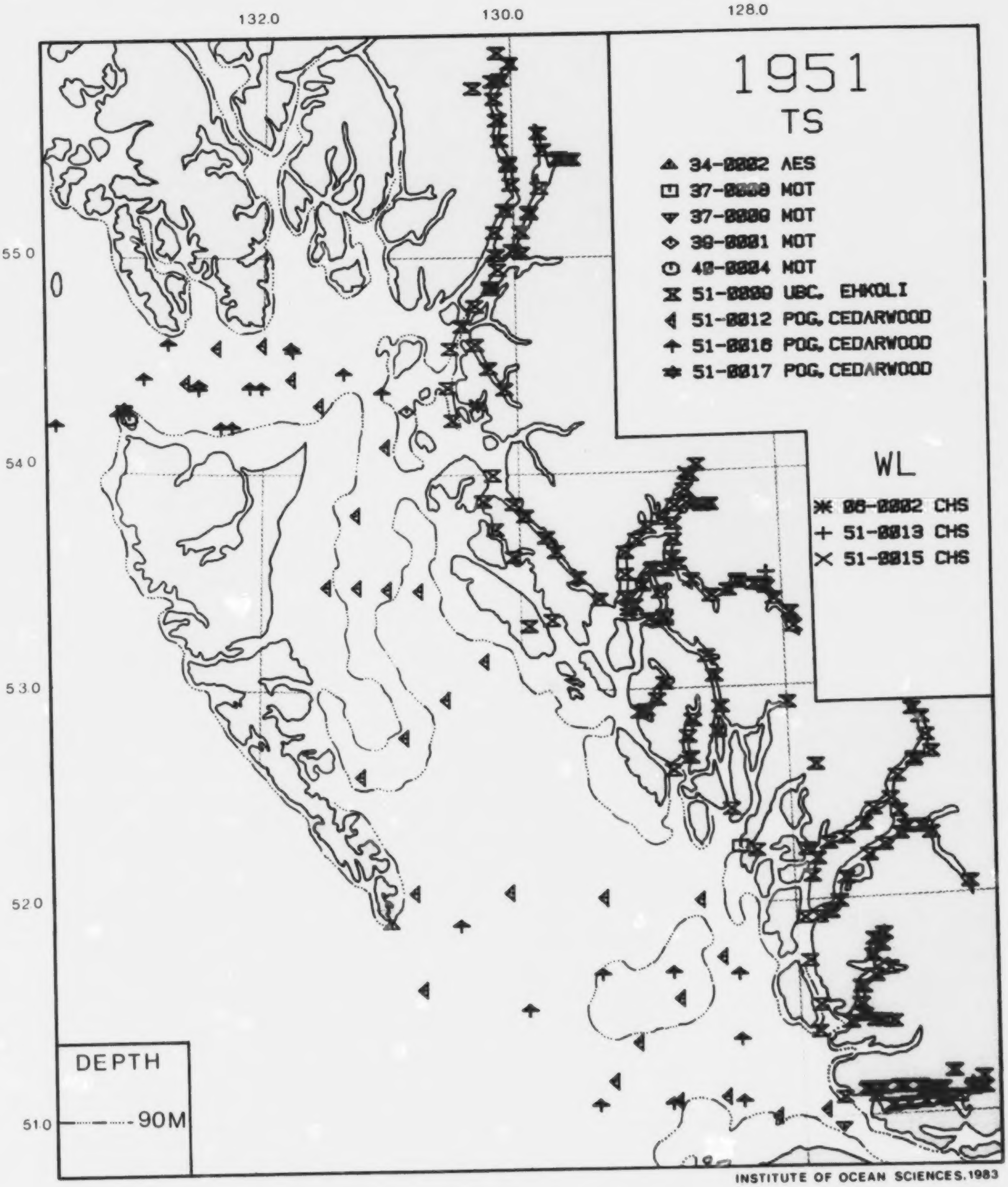
132.0
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128.0
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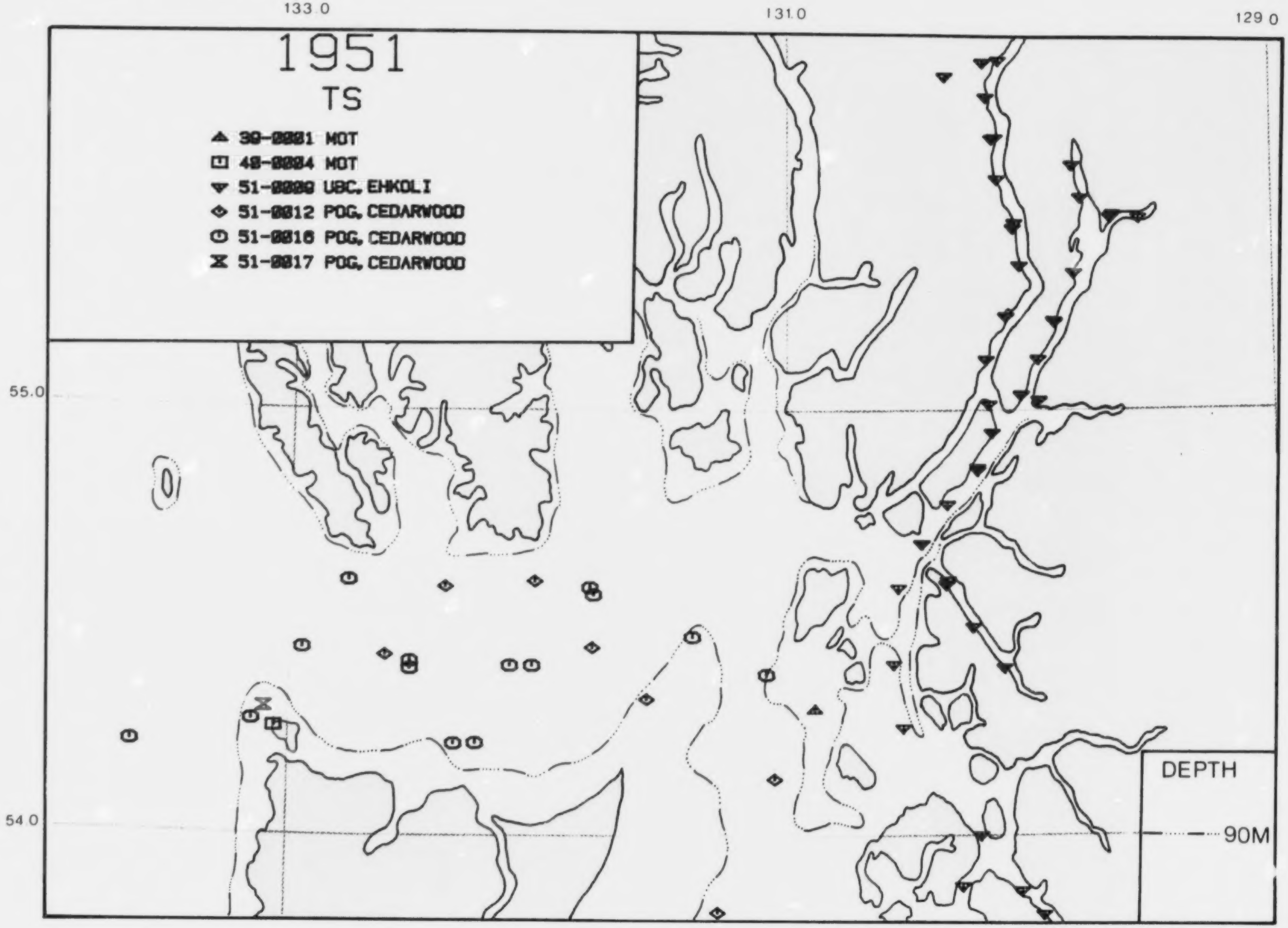
54.0
53.0
52.0
51.0
1951
TS
▲ 34-0002 AES
⊡ 37-0008 MOT
▼ 37-0009 MOT
◈ 38-0001 MOT
⏻ 40-0004 MOT
⧗ 51-0009 UBC. EHKOLI
◁ 51-0012 POG. CEDARWOOD
↑ 51-0016 POG. CEDARWOOD
✱ 51-0017 POG. CEDARWOOD
WL
✳ 08-0002 CHS
+ 51-0013 CHS
× 51-0015 CHS
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES,1983


133.0
131.0
129 0
55.0
54.0
1951
TS
▲ 39-0001 MOT
☐ 49-0004 MOT
▼ 51-0009 UBC, EHKOLI
◇ 51-0012 POG, CEDARWOOD
○ 51-0016 POG, CEDARWOOD
⧗ 51-0017 POG, CEDARWOOD
DEPTH
90M

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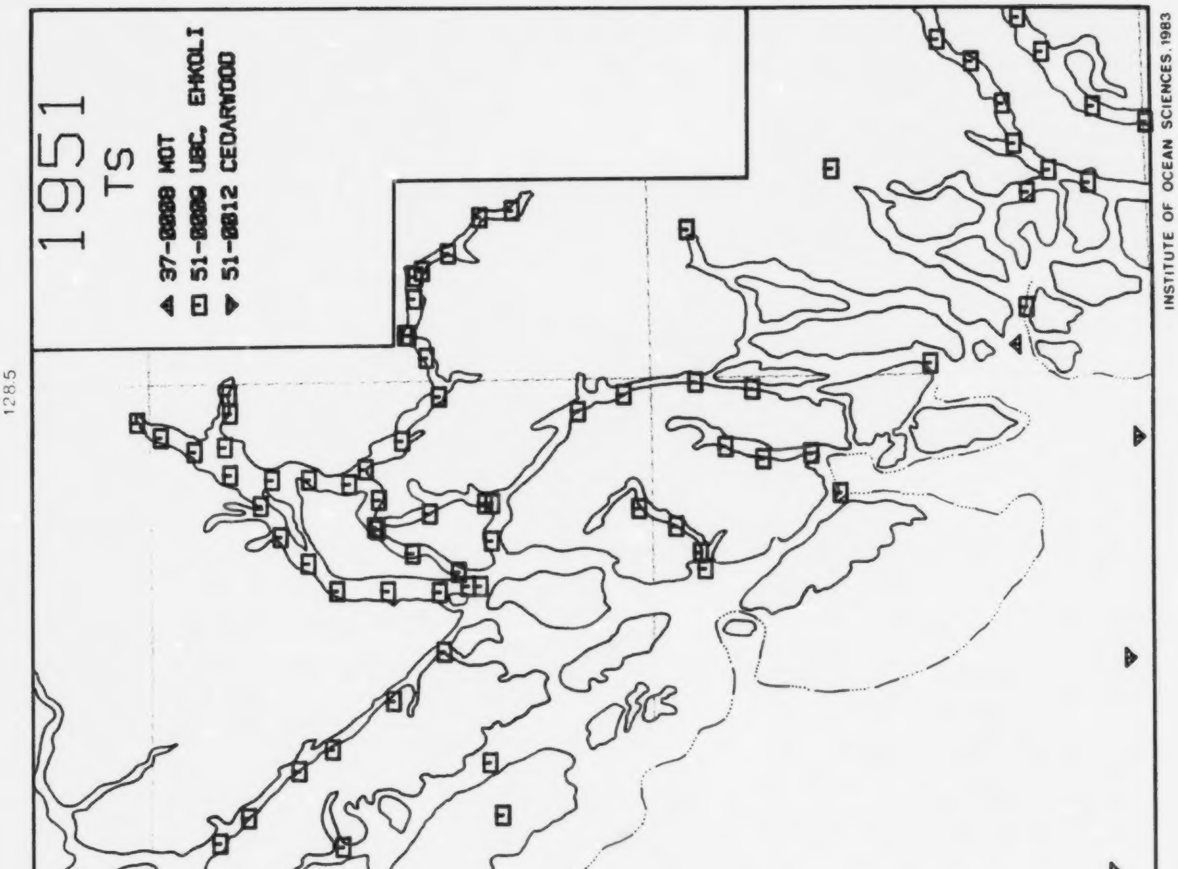
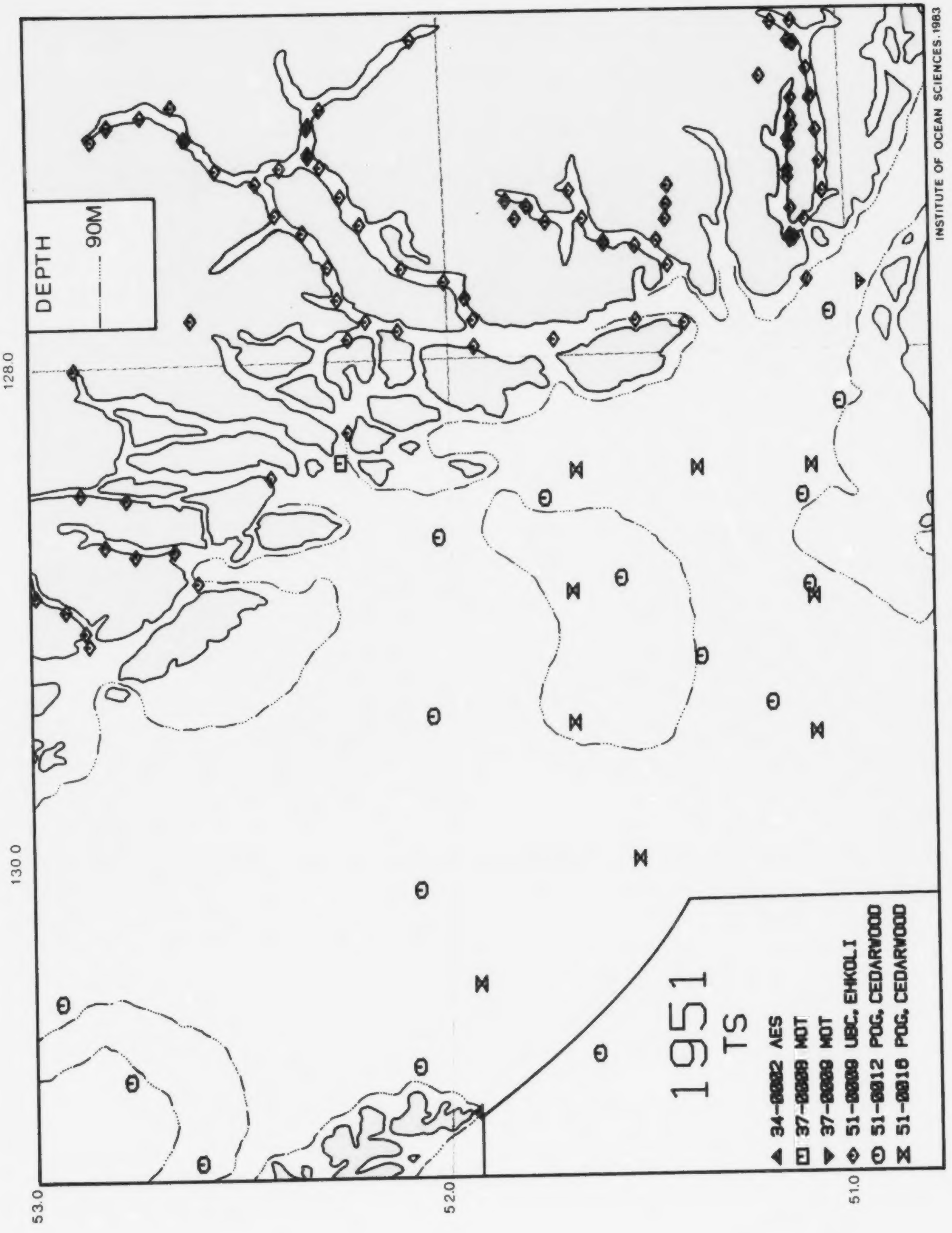
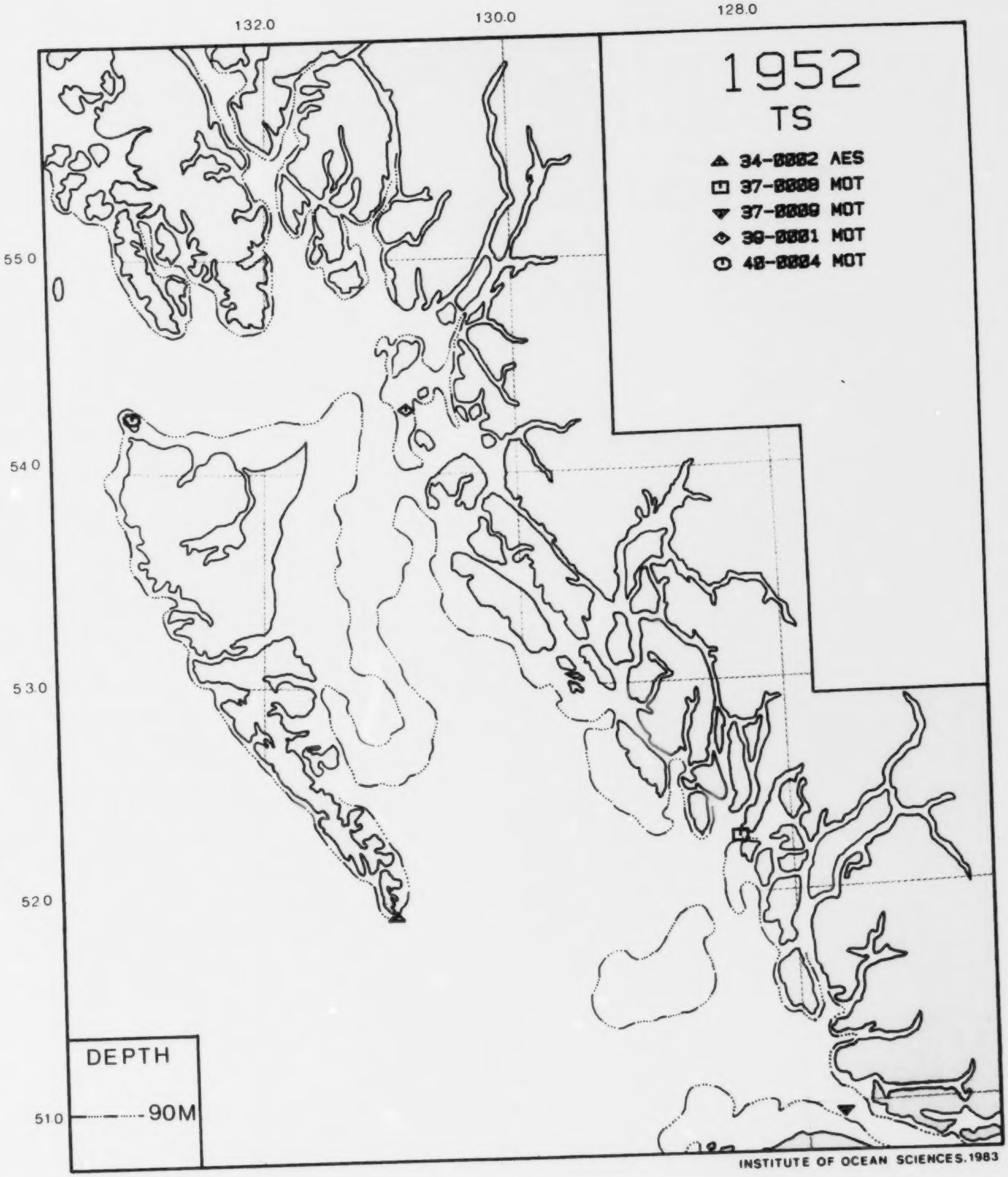

1951
Ts
▲ 37-0008 MOT
⊡ 51-0009 UBC, EHKOLI
▼ 51-0012 CEDARWOOD
128.5
130.5
54.0
53.0
52.0
DEPTH ▼
90M
INSTITUTE OF OCEAN SCIENCES, 1983


128.0
130.0
53.0
52.0
51.0
DEPTH
90M
1951
TS
34-0002 AES
37-0009 MOT
37-0009 MOT
51-0009 UBC, EHKOLI
51-0012 POG, CEDARWOOD
51-0016 POG, CEDARWOOD
INSTITUTE OF OCEAN SCIENCES.1983


132.0
130.0
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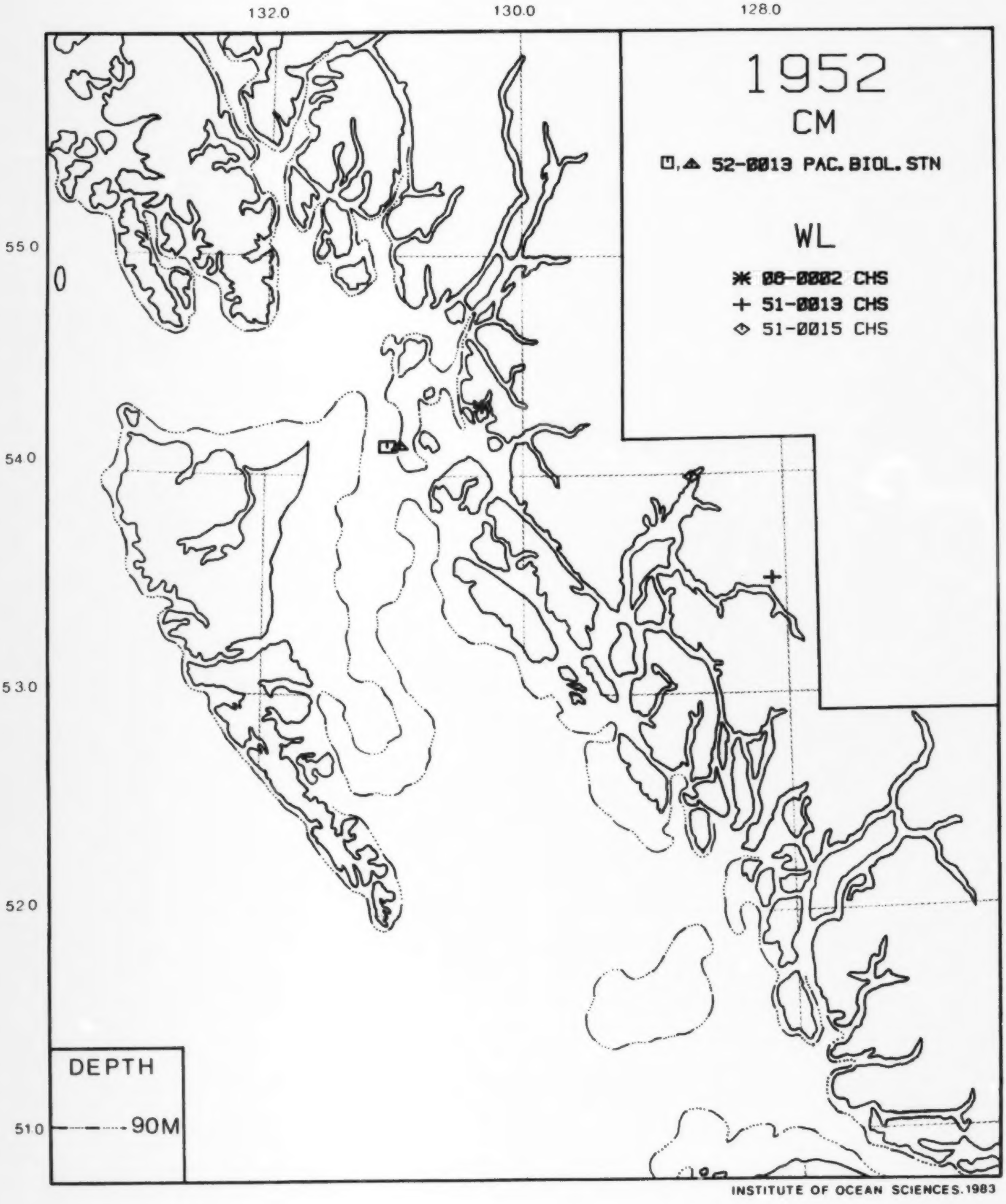
55.0
54.0
53.0
52.0
51.0
1952
TS
▲ 34-0002 AES
□ 37-0008 MOT
▼ 37-0009 MOT
◆ 39-0001 MOT
○ 40-0004 MOT
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983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55.0
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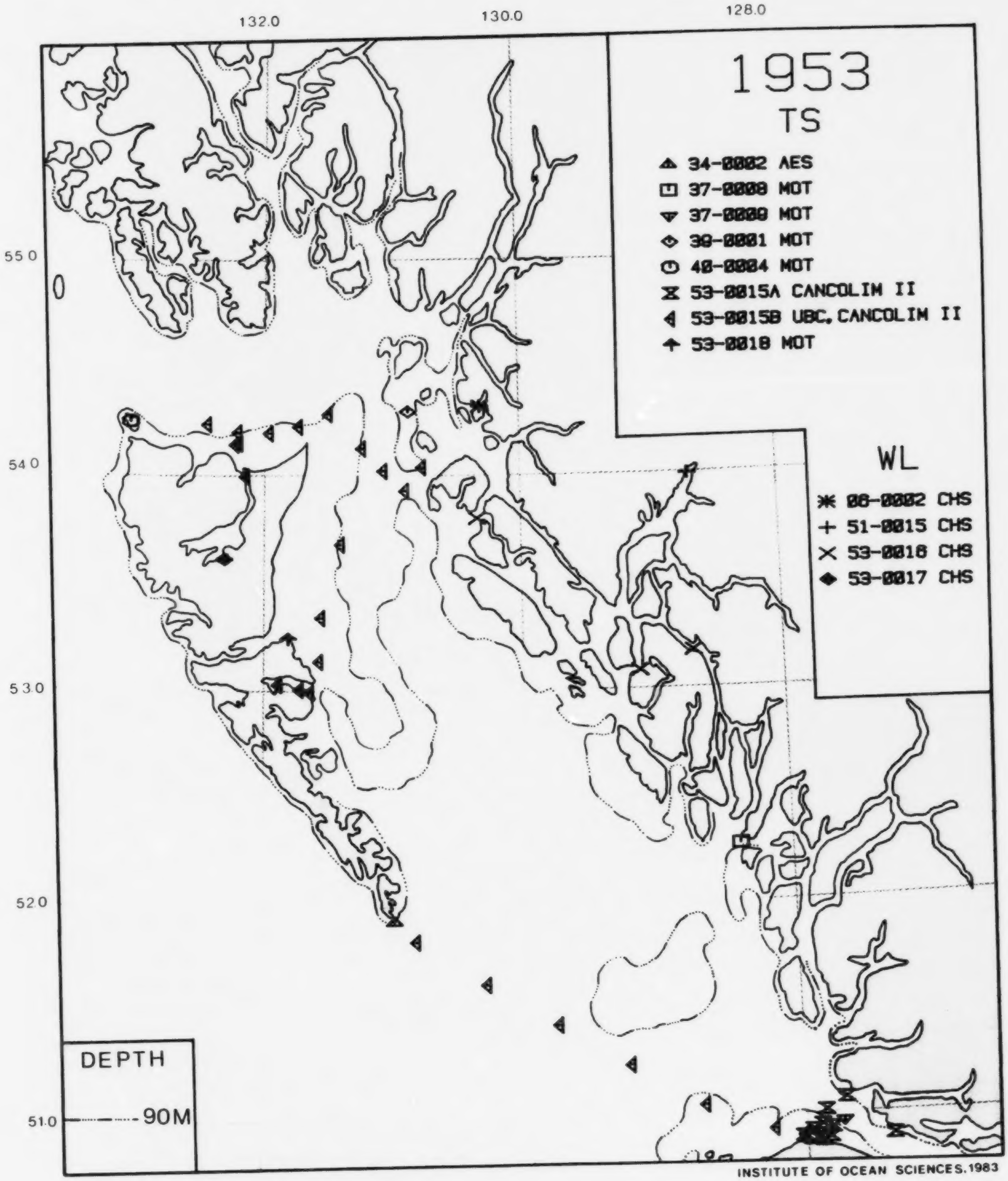
53.0
52.0
51.0
1952
CM
□,▲ 52-0013 PAC. BIOL. STN
WL
✱ 08-0002 CHS
+ 51-0013 CHS
◇ 51-0015 CHS
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983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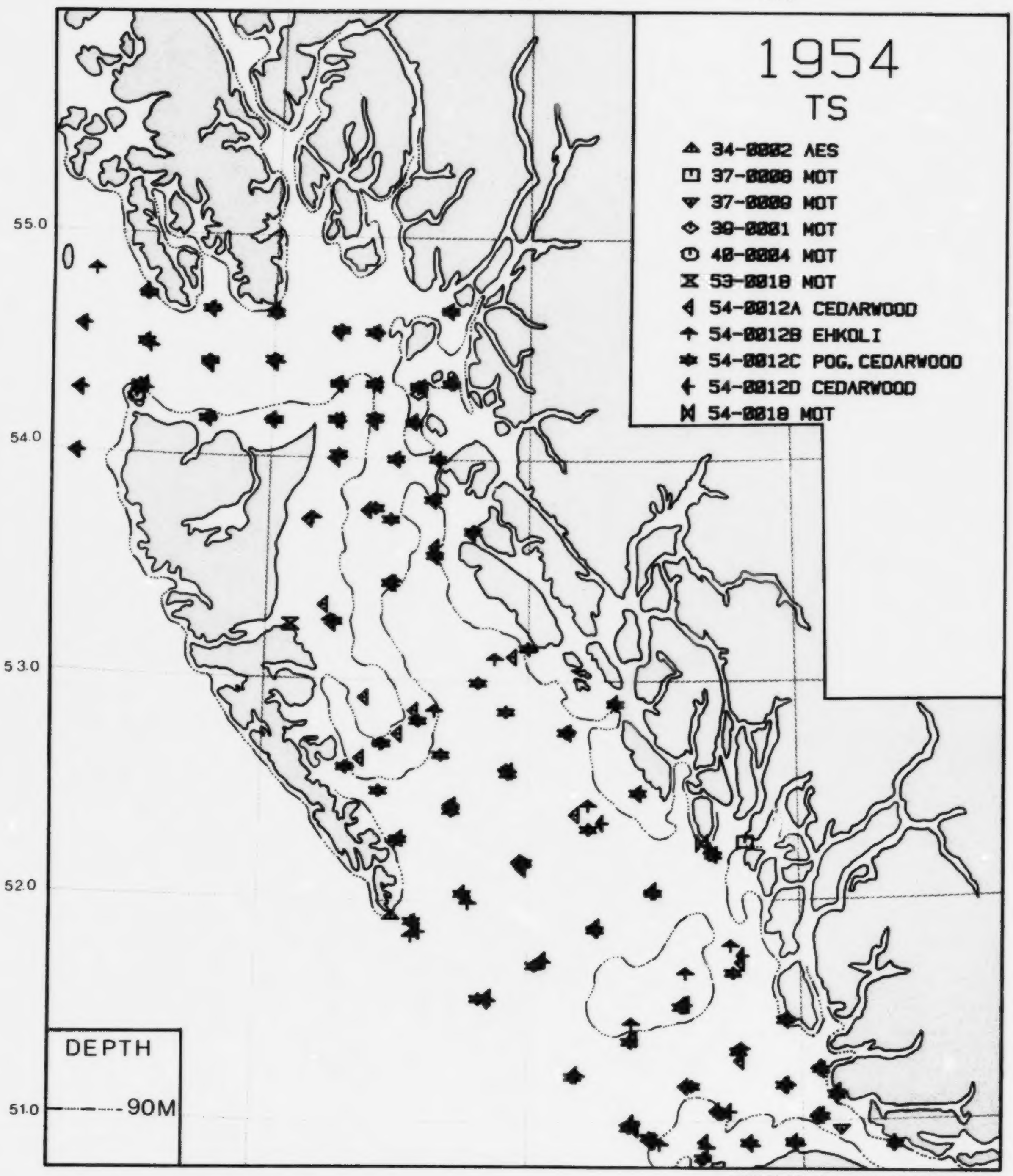
54.0
53.0
52.0
51.0
1953
TS
▲ 34-0002 AES
□ 37-0008 MOT
▼ 37-0009 MOT
◇ 38-0001 MOT
○ 40-0004 MOT
⧗ 53-0015A CANCOLIM II
◀ 53-0015B UBC, CANCOLIM II
↑ 53-0018 MOT
WL
✳ 08-0002 CHS
+ 51-0015 CHS
× 53-0016 CHS
◆ 53-0017 CHS
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983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128.0
55.0
54.0
53.0
52.0
51.0
1954
TS
▲ 34-0002 AES
⊡ 37-0006 MOT
▼ 37-0008 MOT
◇ 39-0001 MOT
⊙ 40-0004 MOT
⧗ 53-0018 MOT
◀ 54-0012A CEDARWOOD
↑ 54-0012B EHKOLI
✸ 54-0012C POG. CEDARWOOD
← 54-0012D CEDARWOOD
⋈ 54-0018 MOT
DEPTH
90M

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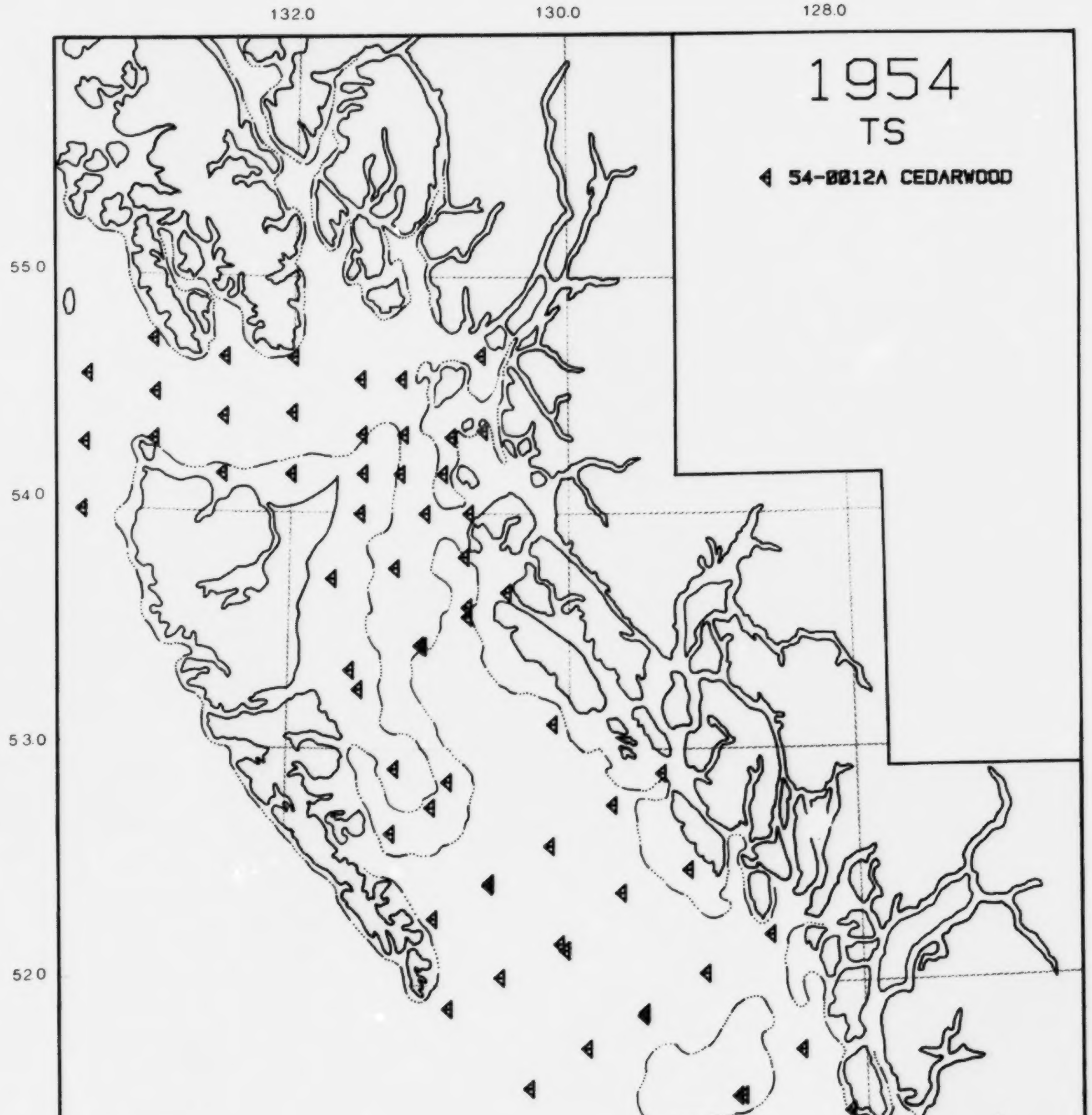
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128.0
55.0
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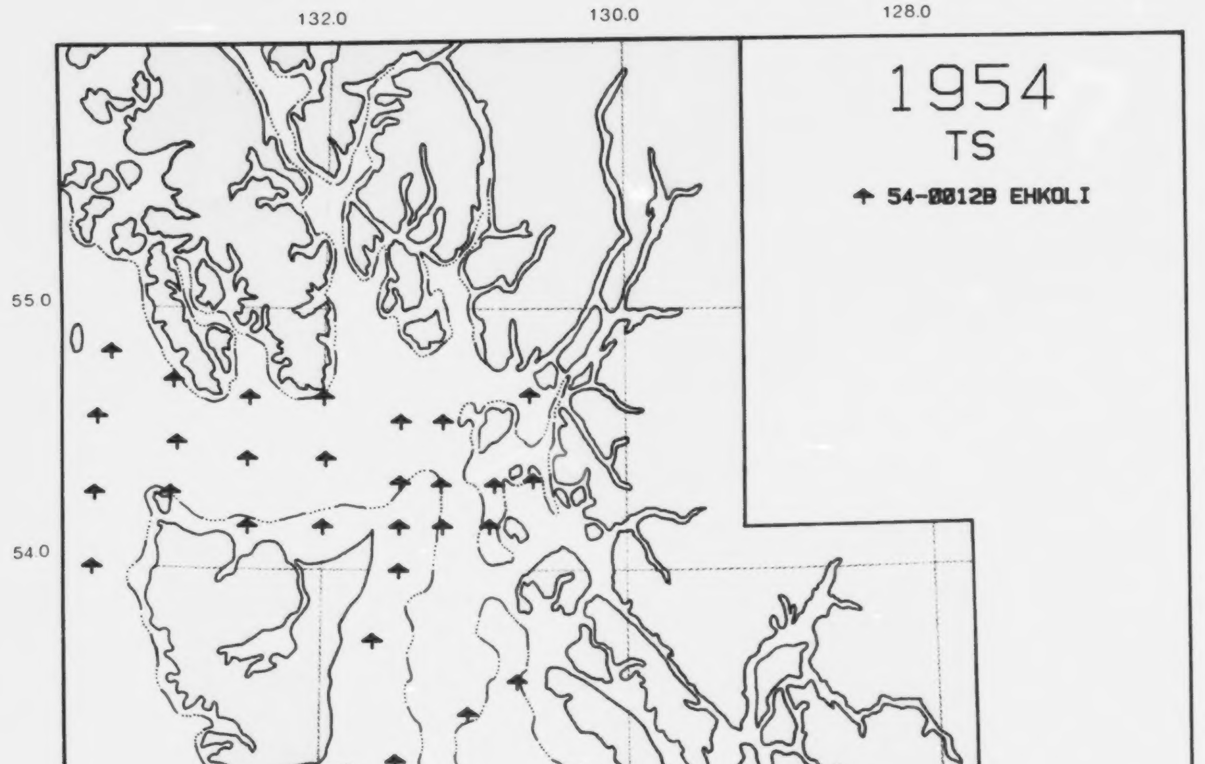
52.0
51.0
1954
TS
54-0012A CEDARWOOD
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983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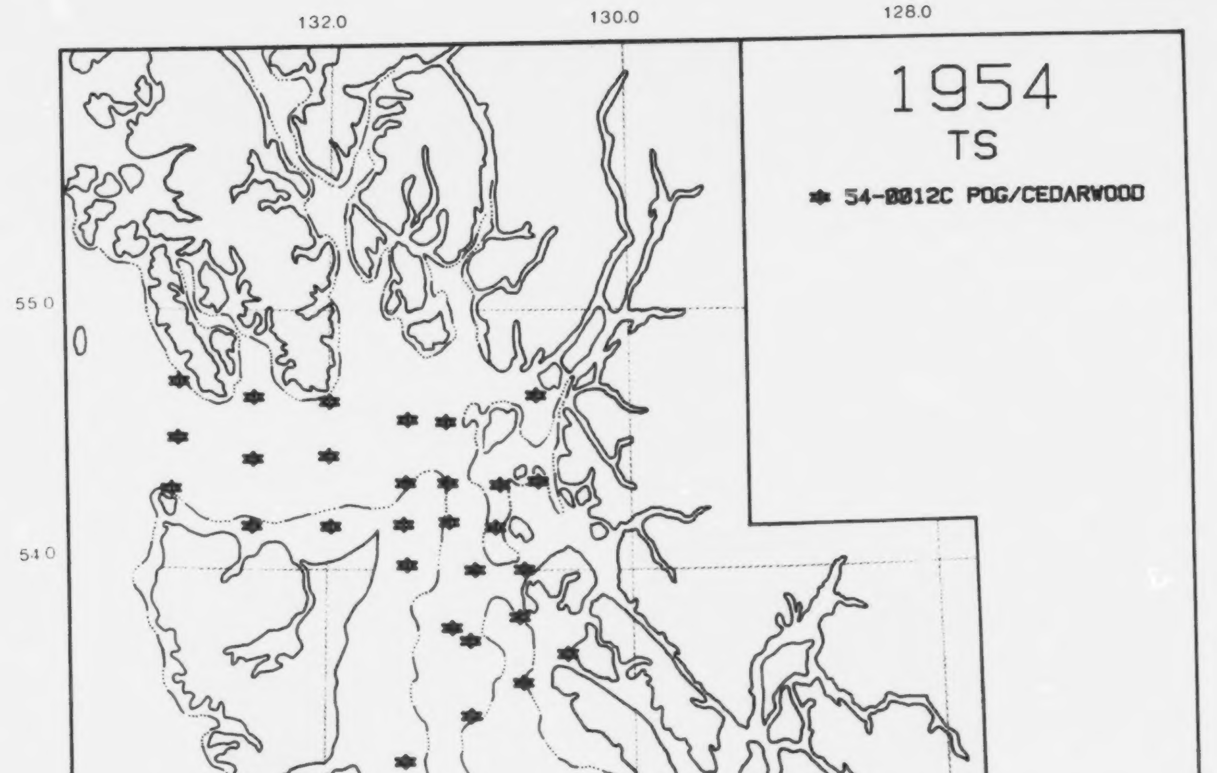
51.0
1954
TS
54-0012B EHKOLI
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES,1983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52.0
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1954
TS
✱ 54-0012C POG/CEDARWOOD
DEPTH
90M

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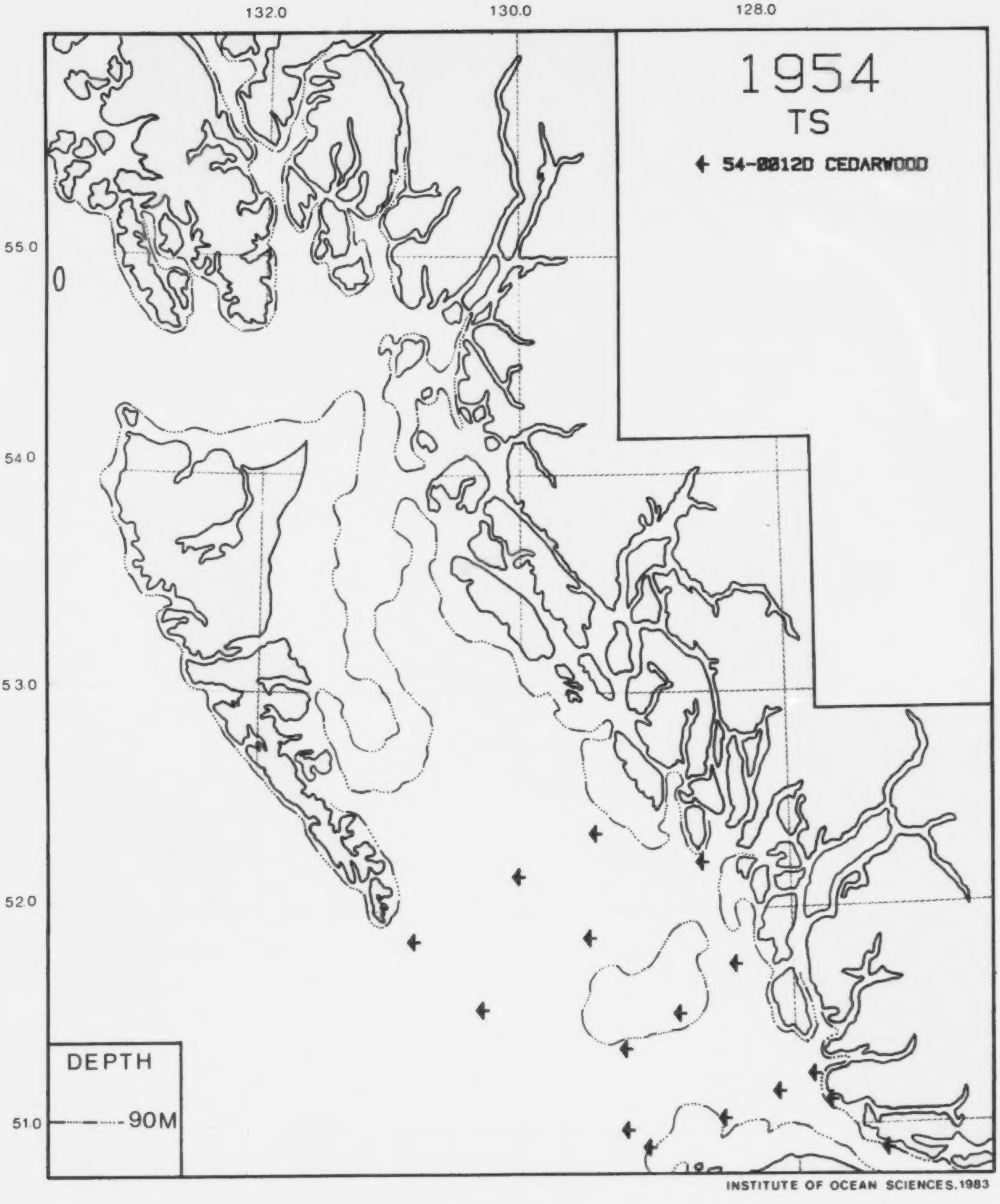
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52.0
51.0
1954
TS
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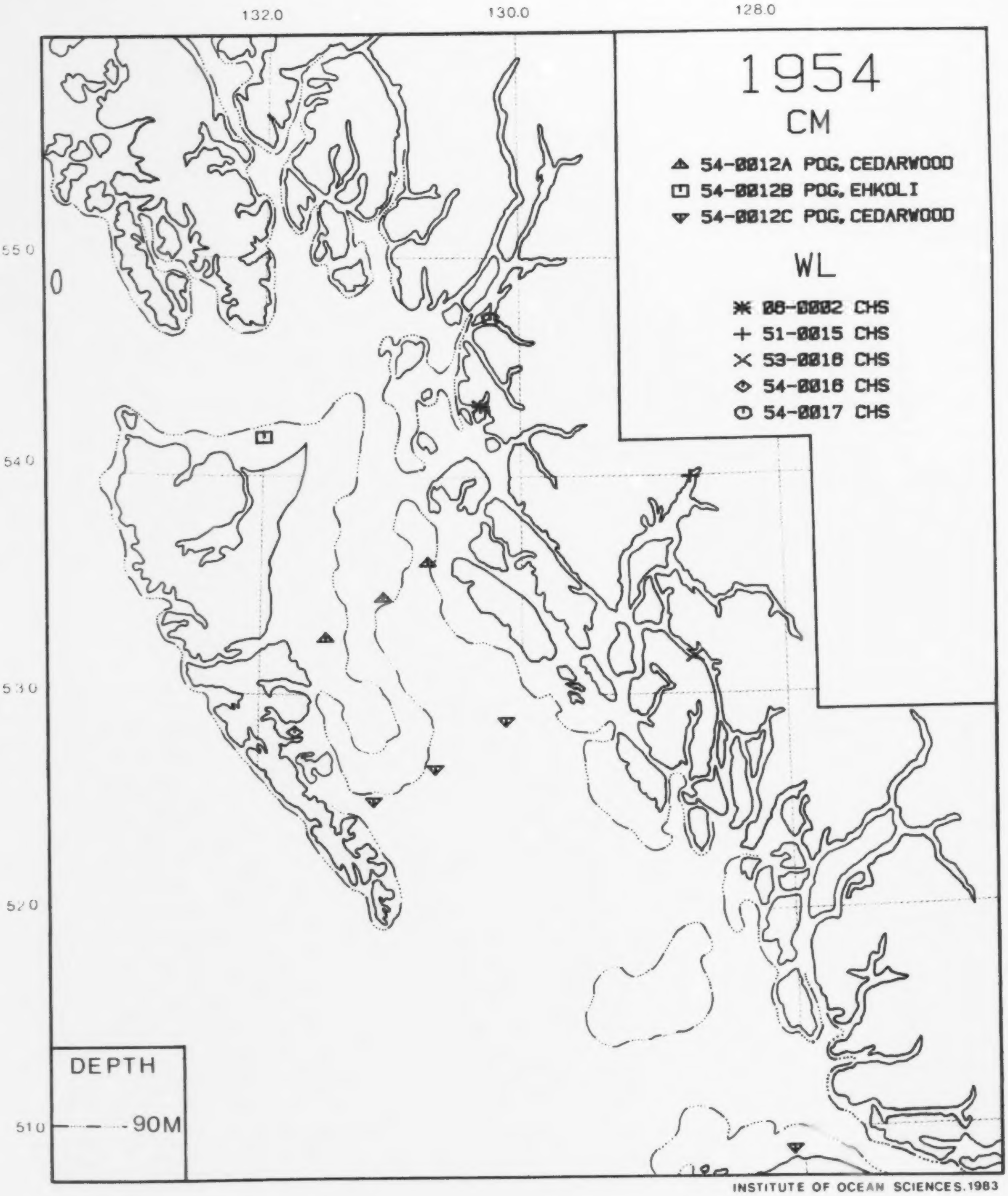
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES.1983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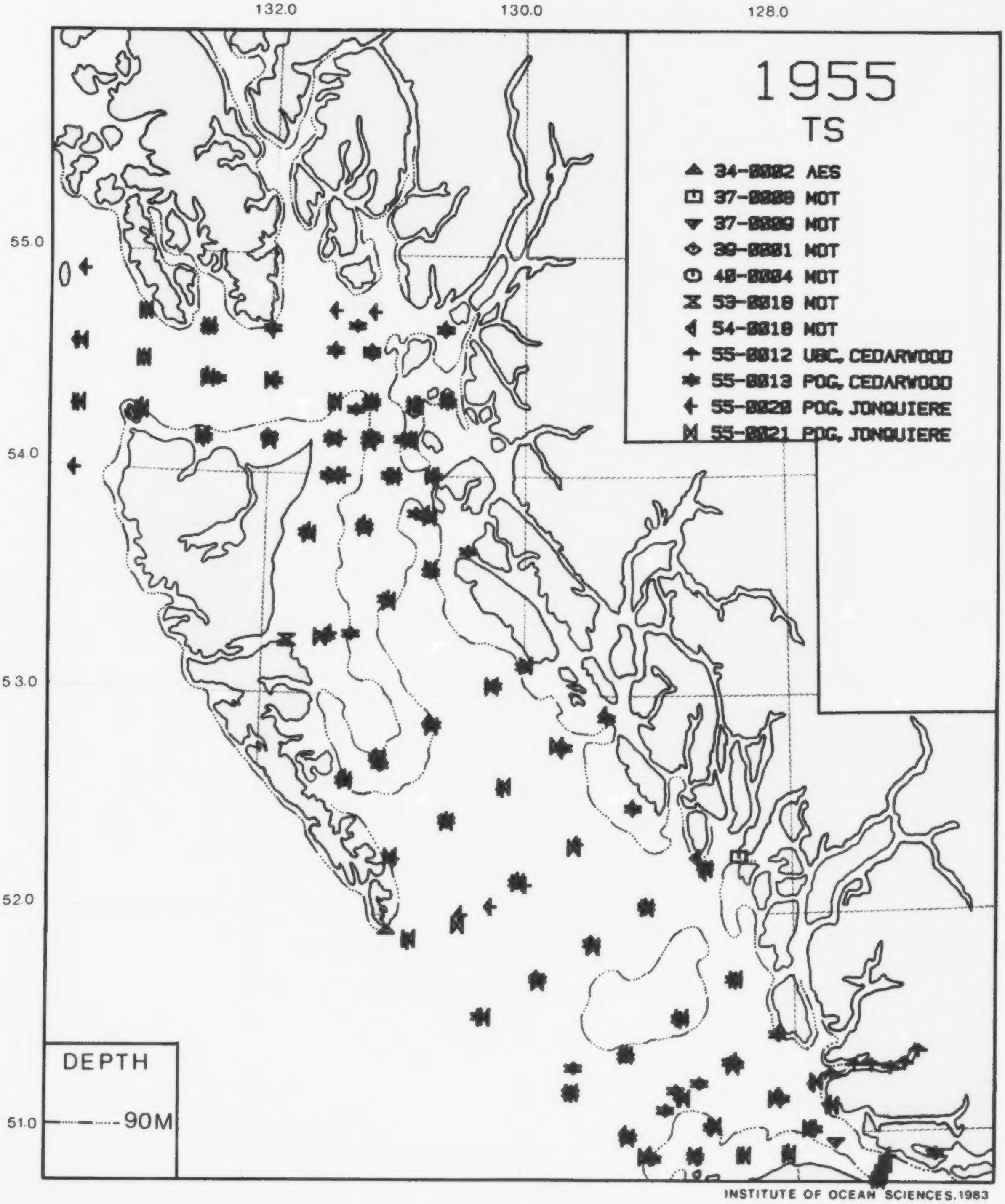
128.0
55.0
54.0
53.0
52.0
51.0
1954
CM
▲ 54-0012A PDG, CEDARWOOD
□ 54-0012B PDG, EHKOLI
▼ 54-0012C PDG, CEDARWOOD
WL
✱ 08-0002 CHS
+ 51-0015 CHS
× 53-0018 CHS
◇ 54-0016 CHS
○ 54-0017 CHS
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES. 1983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52.0
51.0
1955
TS
34-0002 AES
37-0008 MOT
37-0009 MOT
39-0001 MOT
40-0004 MOT
53-0018 MOT
54-0018 MOT
55-0012 UBC, CEDARWOOD
55-0013 POG, CEDARWOOD
55-0020 POG, JONQUIERE
55-0021 POG, JONQUIERE
DEPTH
90M

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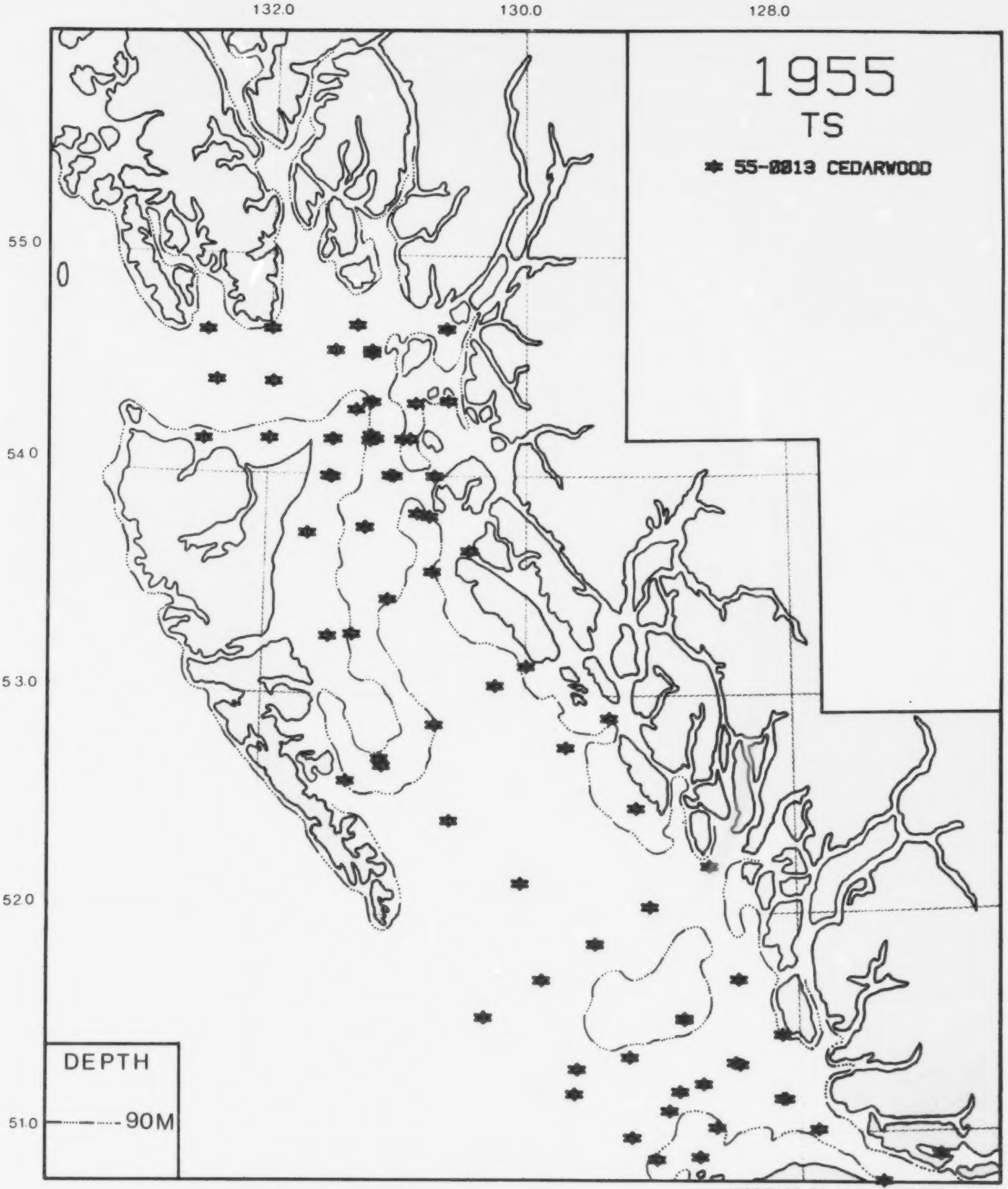
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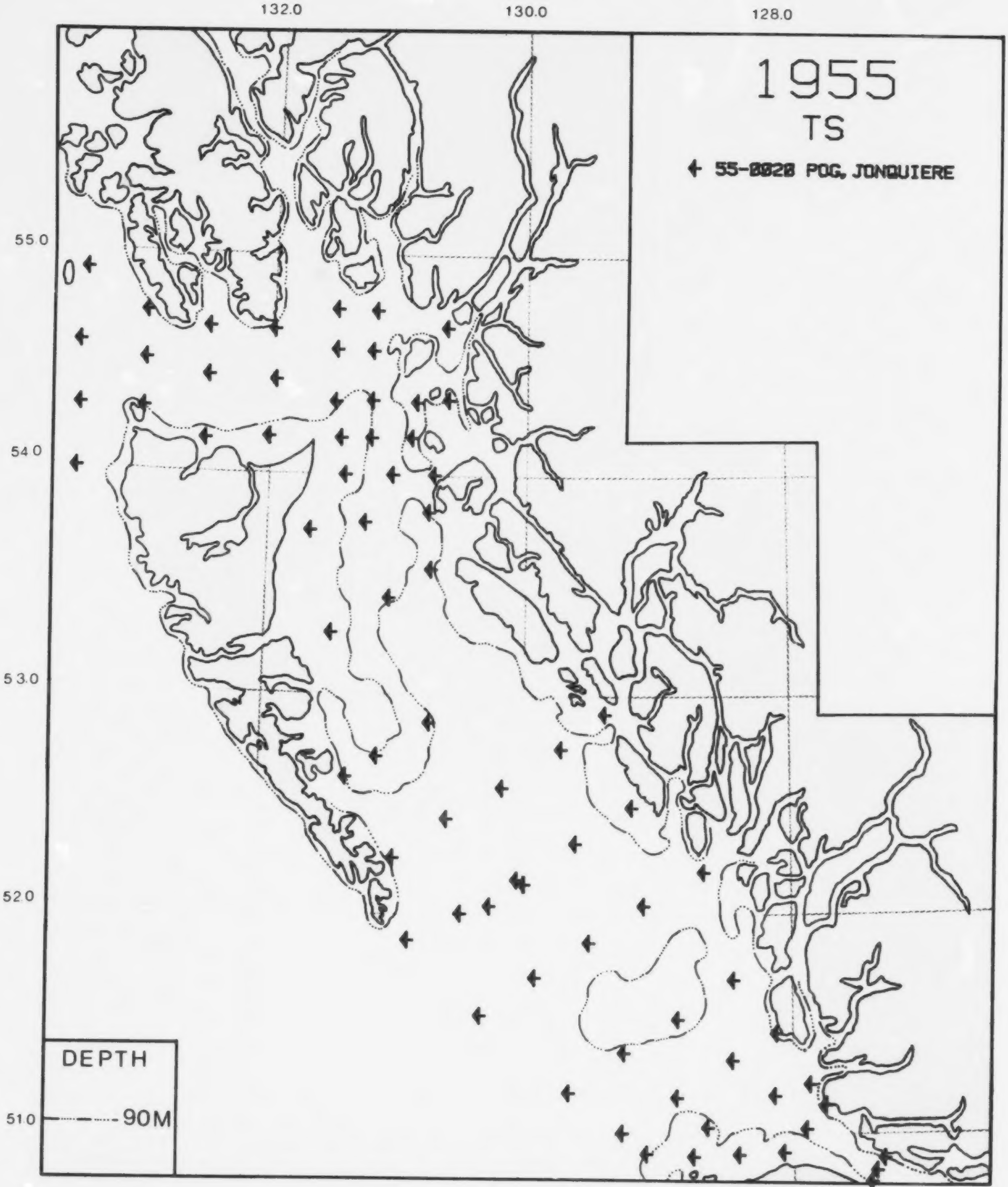
51.0
1955
TS
✱ 55-0013 CEDARWOOD
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES, 1983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130.0
128.0
1955
TS
55-0020 POG. JONQUIERE
55.0
54.0
53.0
52.0
51.0
DEPTH
90M

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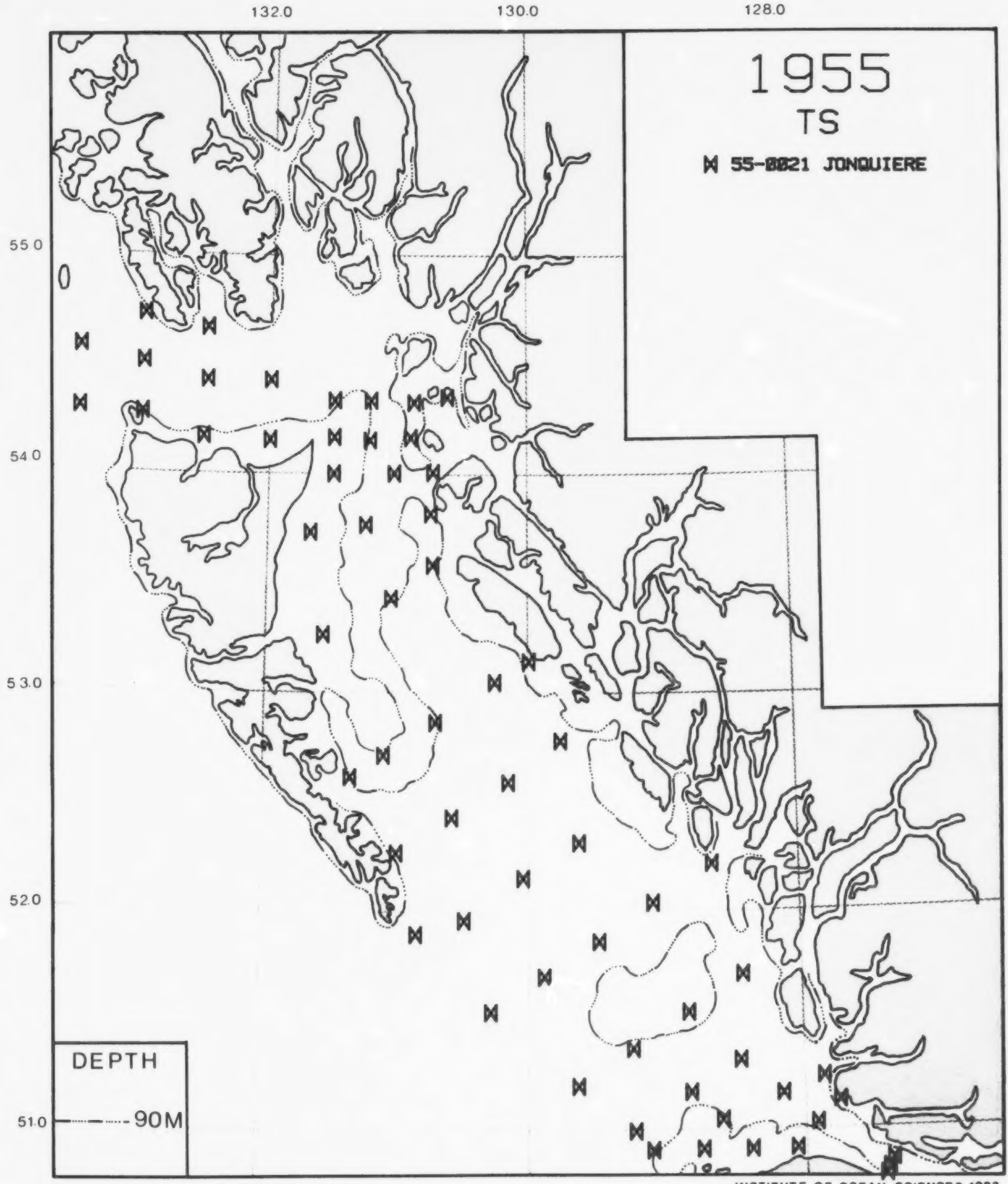
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128.0
55.0
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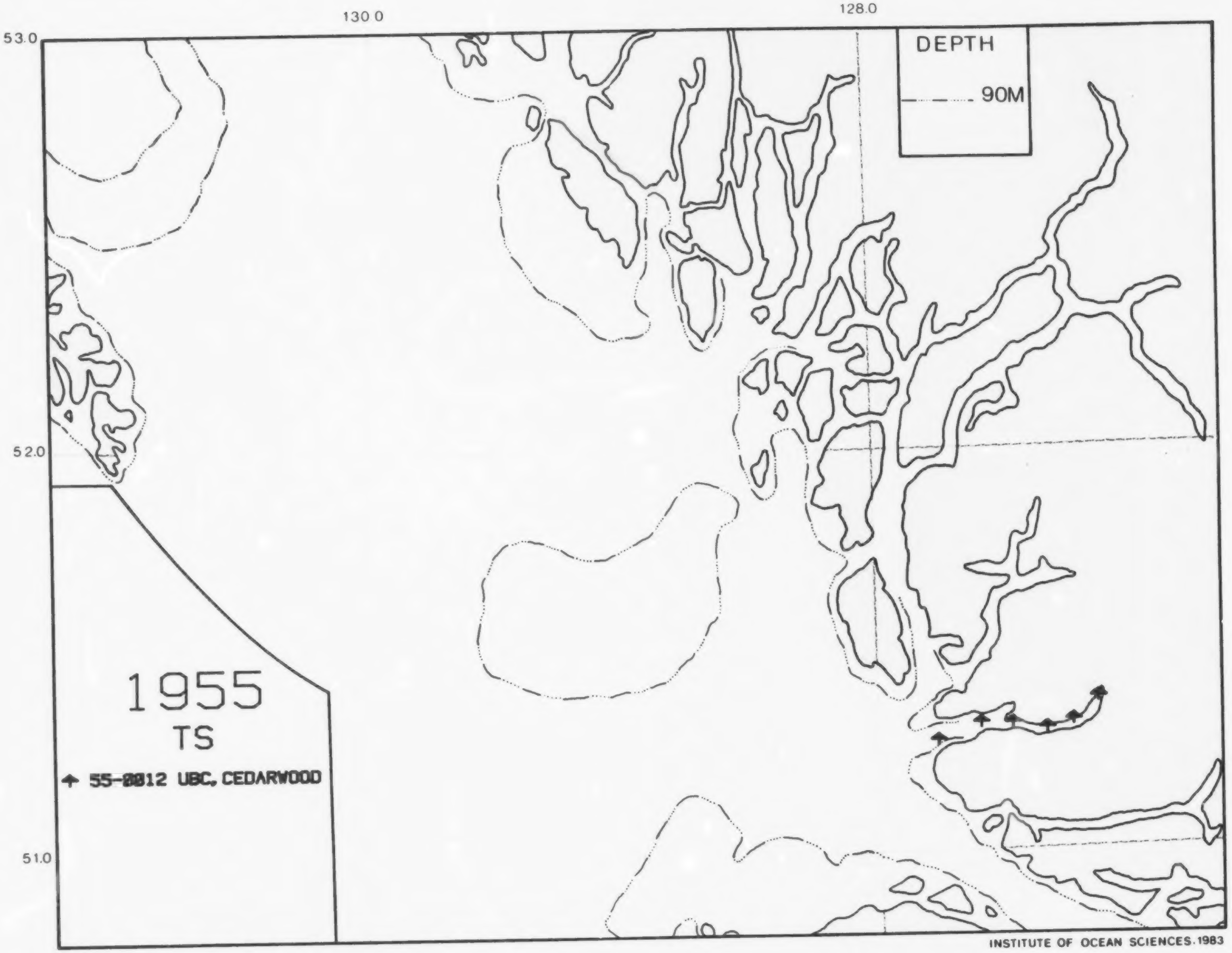
51.0
1955
TS
⋈ 55-0021 JONQUIERE
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES.1983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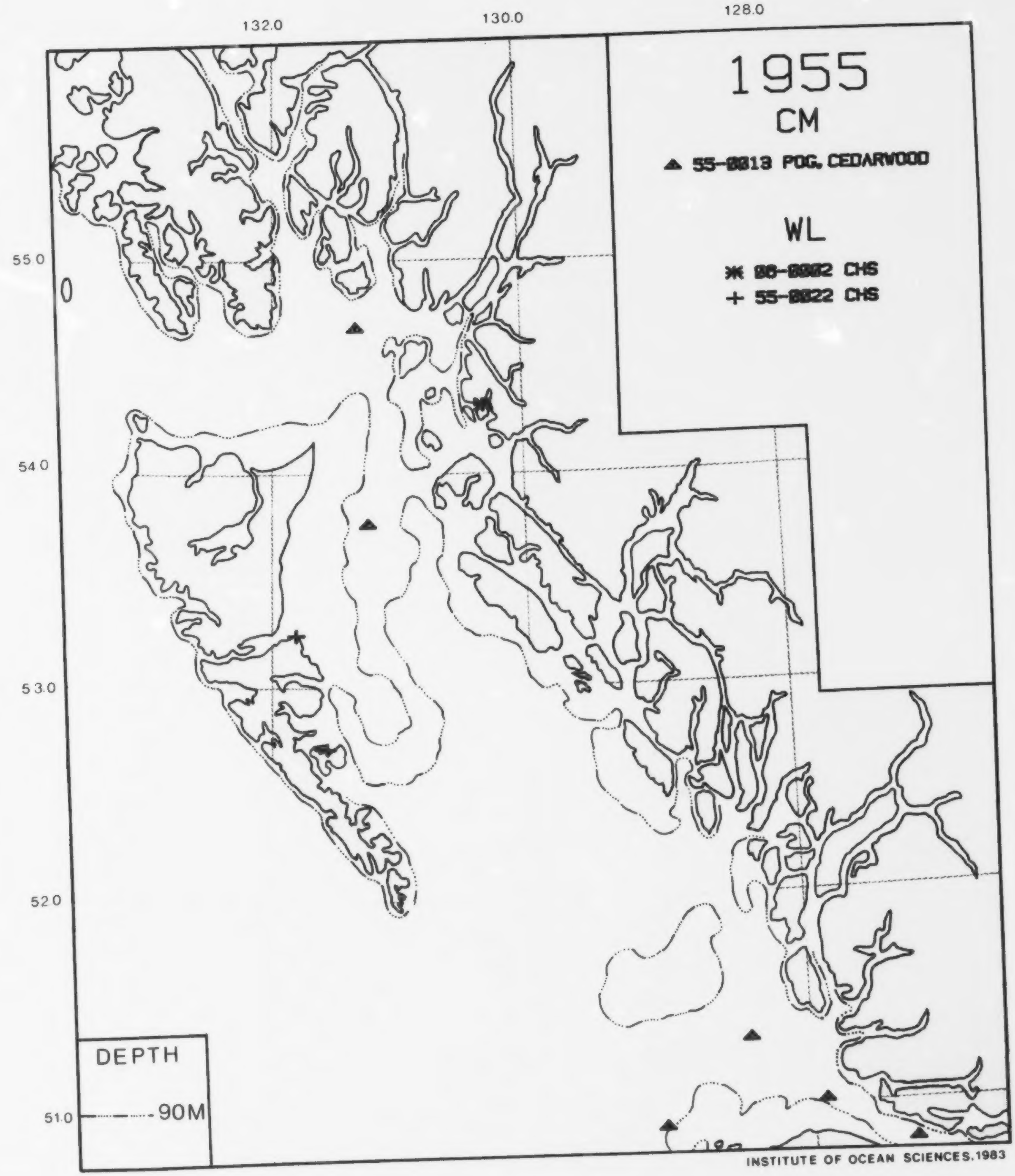
51.0
DEPTH
90M
1955
TS
55-0012 UBC, CEDARWOOD
INSTITUTE OF OCEAN SCIENCES.1983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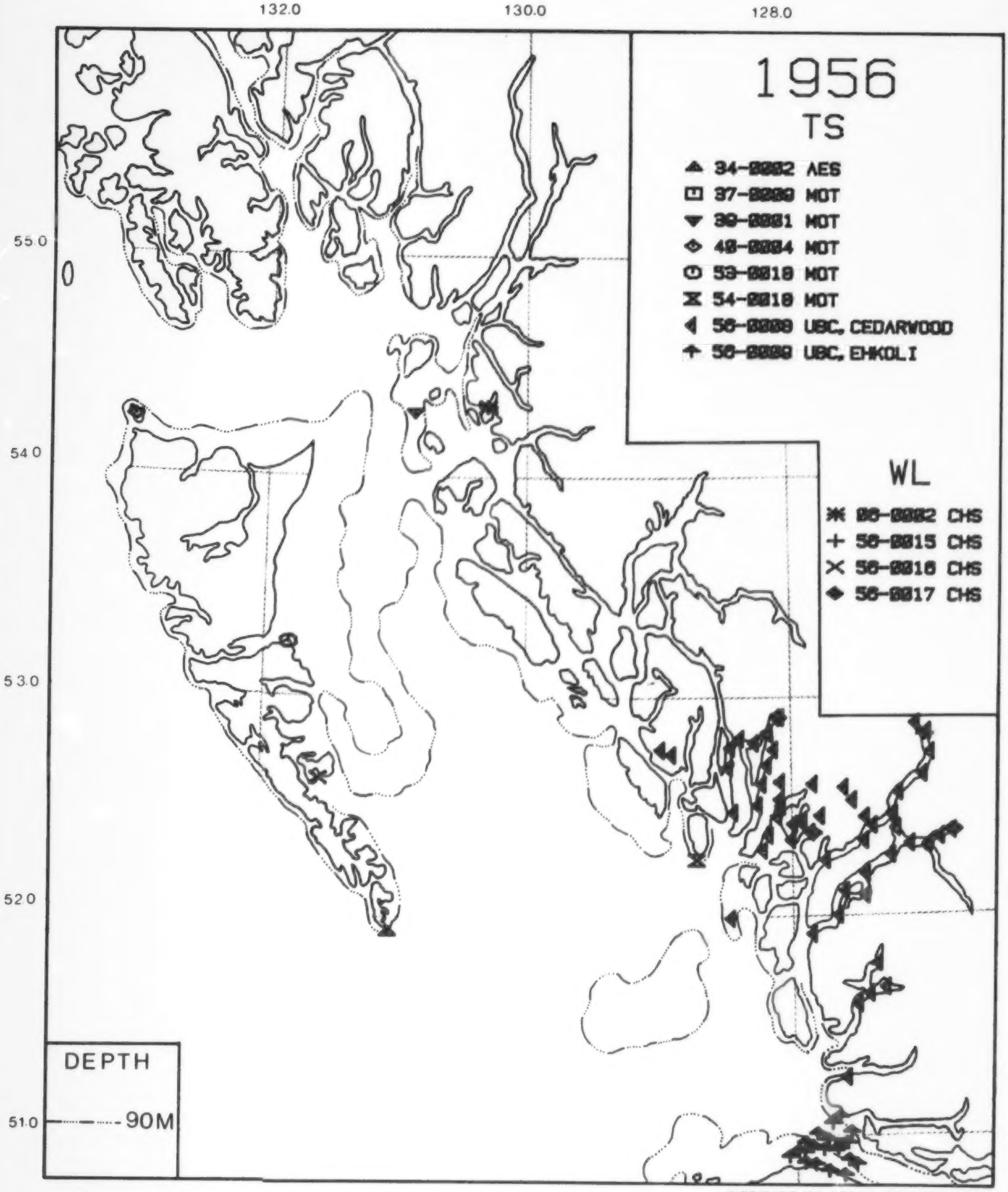
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1955
CM
▲ 55-0013 POG. CEDARWOOD
WL
✱ 00-0002 CHS
+ 55-0022 CHS
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983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130.0
128.0
55.0
54.0
53.0
52.0
51.0
1956
TS
▲ 34-0002 AES
⊡ 37-0000 MOT
▼ 39-0001 MOT
◈ 40-0004 MOT
⏀ 53-0010 MOT
⧗ 54-0010 MOT
◀ 56-0000 UBC. CEDARWOOD
🡡 56-0000 UBC. EHKOLI
WL
✳ 06-0002 CHS
+ 56-0015 CHS
× 56-0016 CHS
◆ 56-0017 CHS
DEPTH
90M

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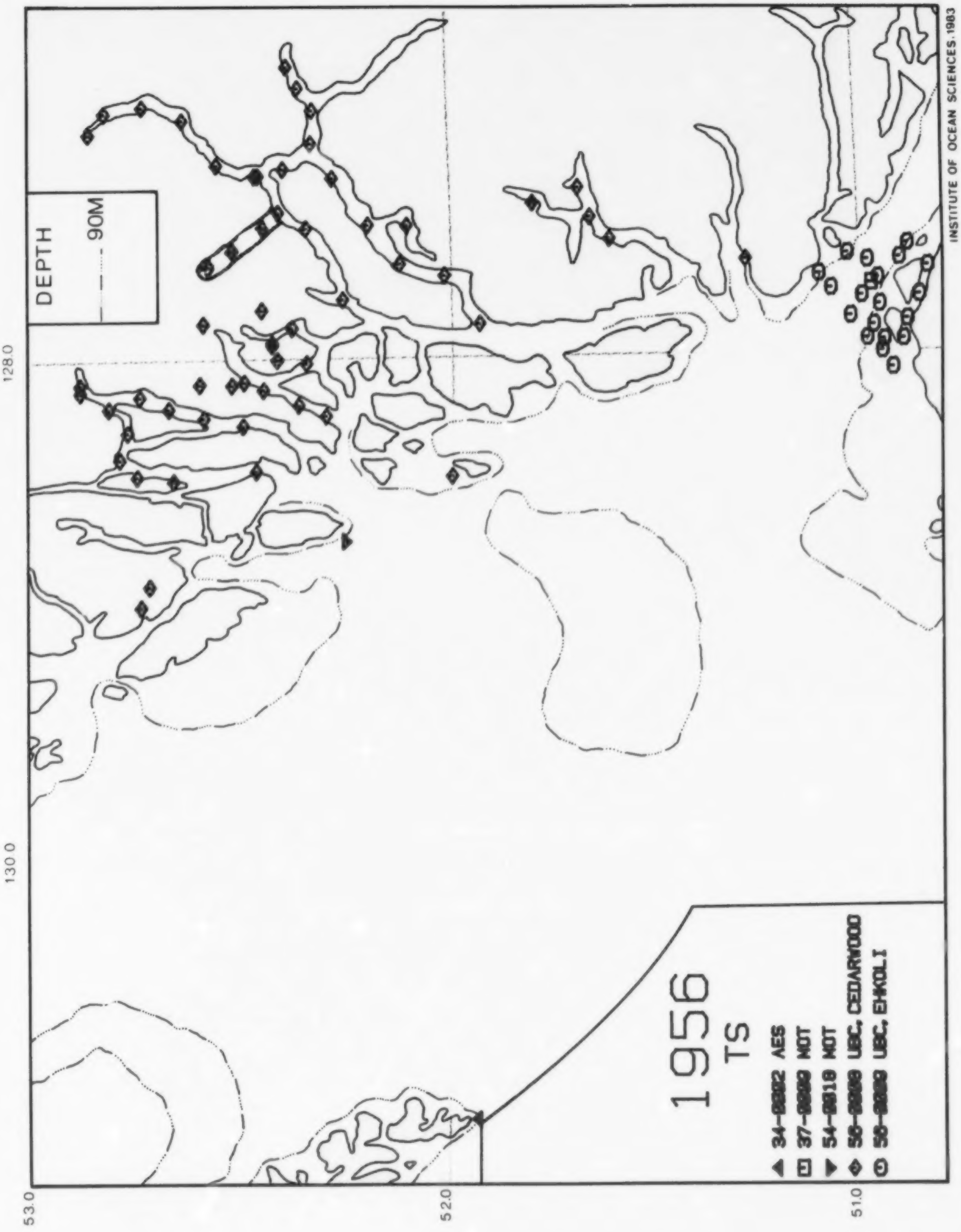
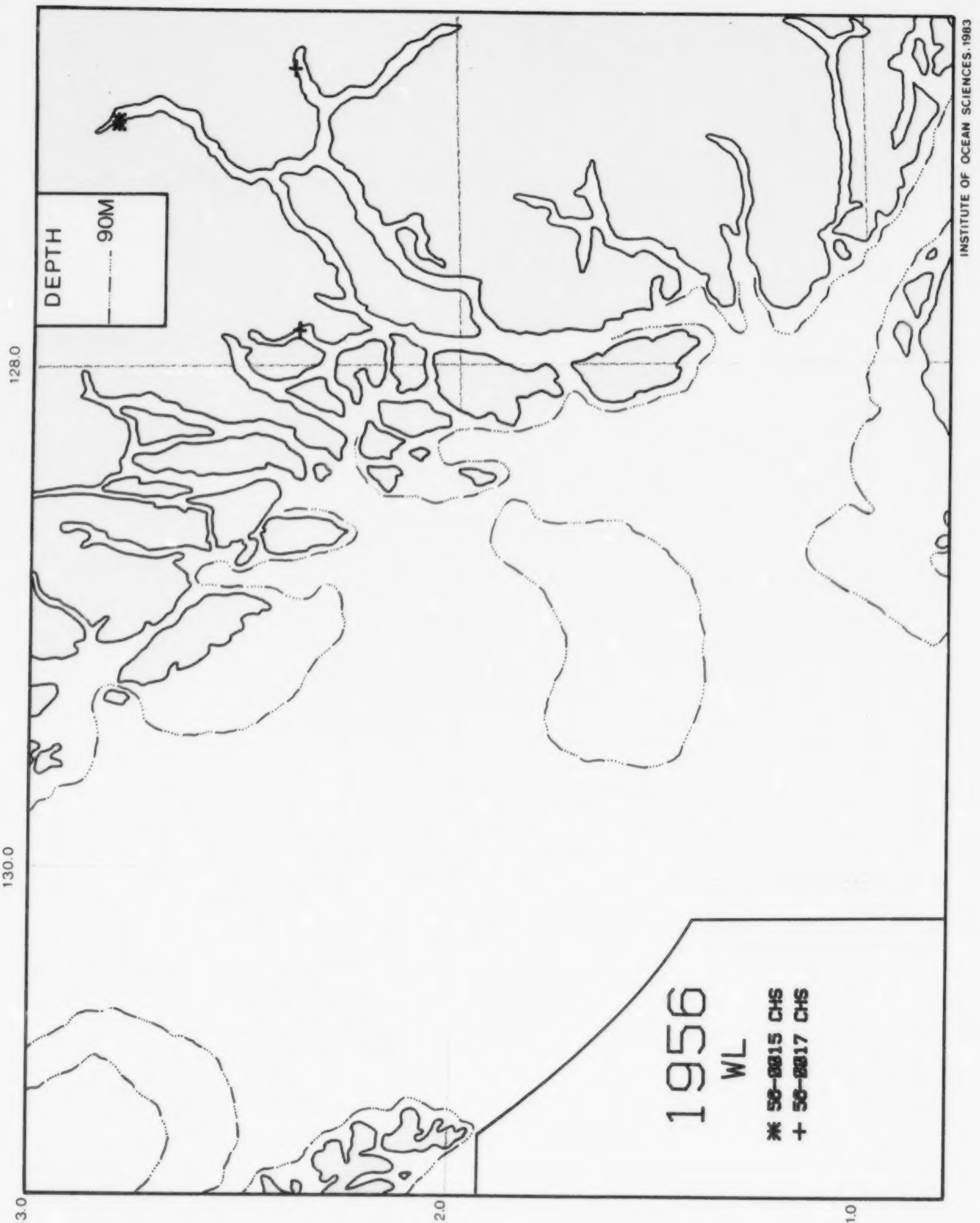

DEPTH
90M
128.0
130.0
53.0
52.0
51.0
1956
Ts
▲ 34-0002 AES
▣ 37-0000 MOT
▼ 54-0018 MOT
◈ 56-0008 UBC, CEDARWOOD
ʘ 56-0009 UBC, EHKOLI
INSTITUTE OF OCEAN SCIENCES 1983


DEPTH
90M
128.0
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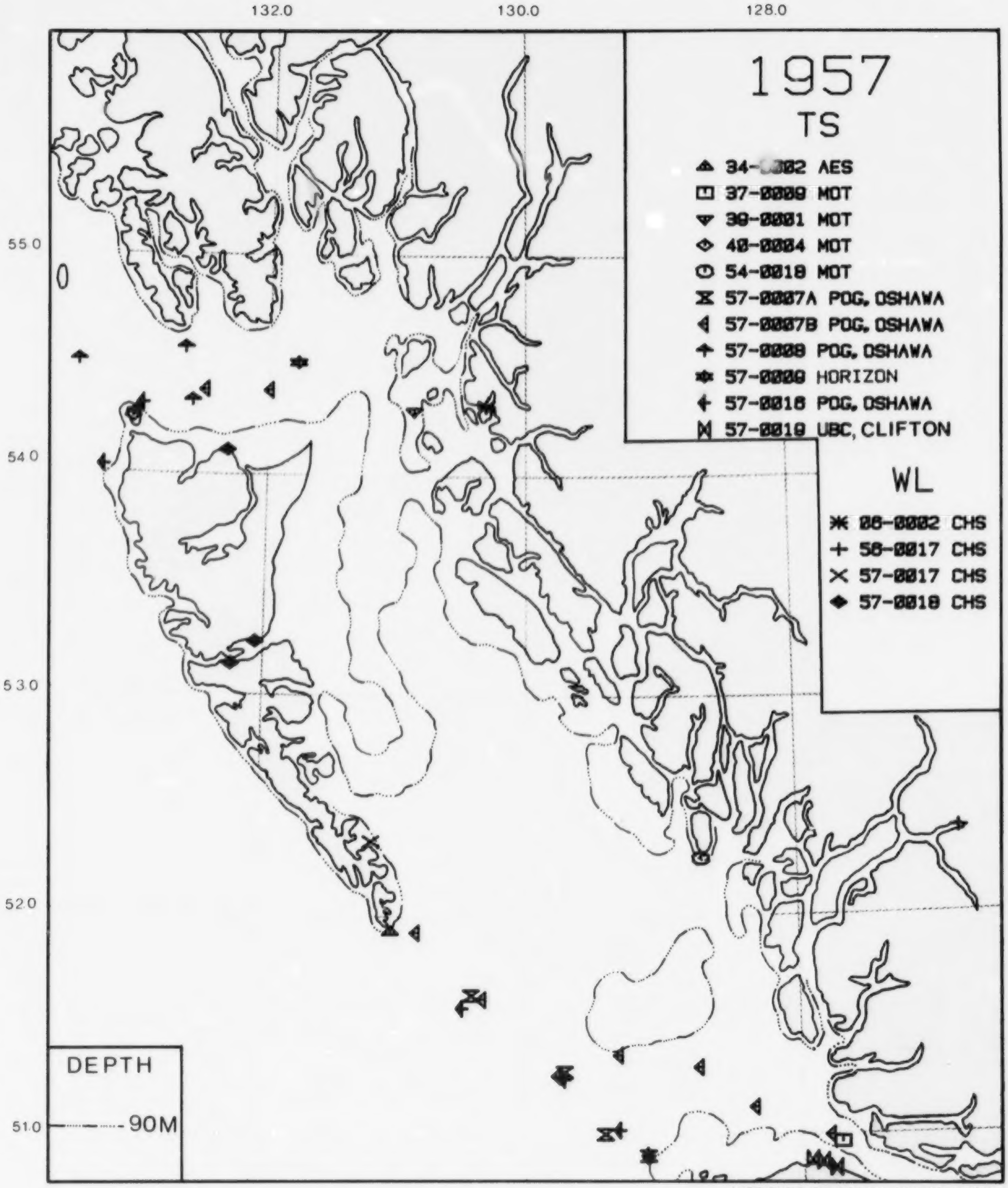
52.0
51.0
1956
WL
✱ 56-00815 CHS
+ 56-00817 CHS
INSTITUTE OF OCEAN SCIENCES, 1983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128.0
55.0
54.0
53.0
52.0
51.0
1957
TS
▲ 34-[illegible]002 AES
□ 37-0009 MOT
▼ 38-0001 MOT
◇ 40-0004 MOT
○ 54-0018 MOT
⧗ 57-0007A POG. OSHAWA
◀ 57-0007B POG. OSHAWA
✦ 57-0008 POG. OSHAWA
✱ 57-0009 HORIZON
✦ 57-0016 POG. OSHAWA
⋈ 57-0019 UBC, CLIFTON
WL
✳ 08-0002 CHS
+ 58-0017 CHS
× 57-0017 CHS
◆ 57-0018 CHS
DEPTH
90M

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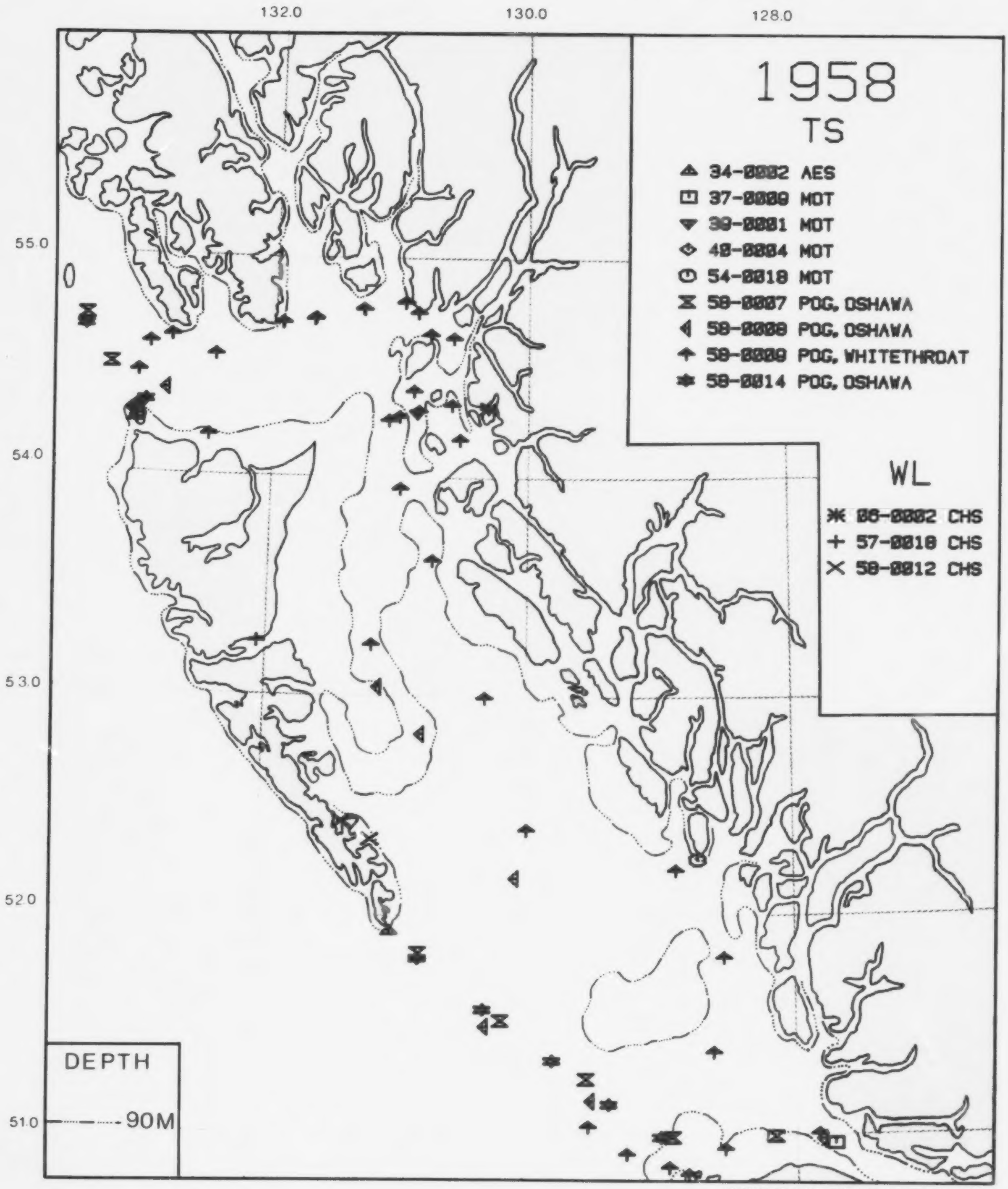
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55.0
54.0
53.0
52.0
51.0
1958
TS
▲ 34-0002 AES
⊔ 37-0009 MOT
▼ 39-0001 MOT
◇ 40-0004 MOT
○ 54-0018 MOT
⧗ 58-0007 POG, OSHAWA
◁ 58-0008 POG, OSHAWA
↑ 58-0009 POG, WHITETHROAT
✱ 58-0014 POG, OSHAWA
WL
⋇ 06-0002 CHS
+ 57-0018 CHS
× 58-0012 CHS
DEPTH
90M

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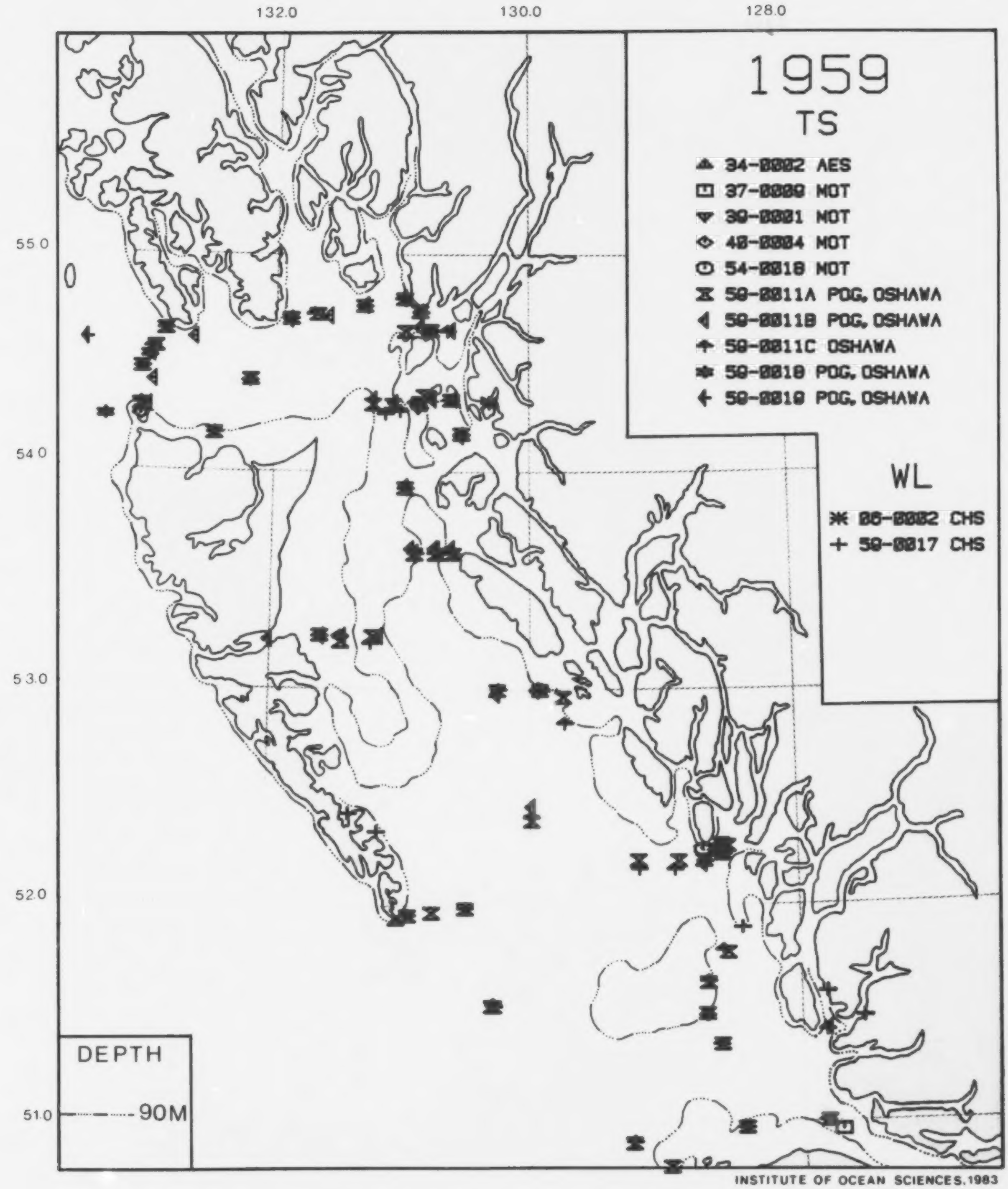
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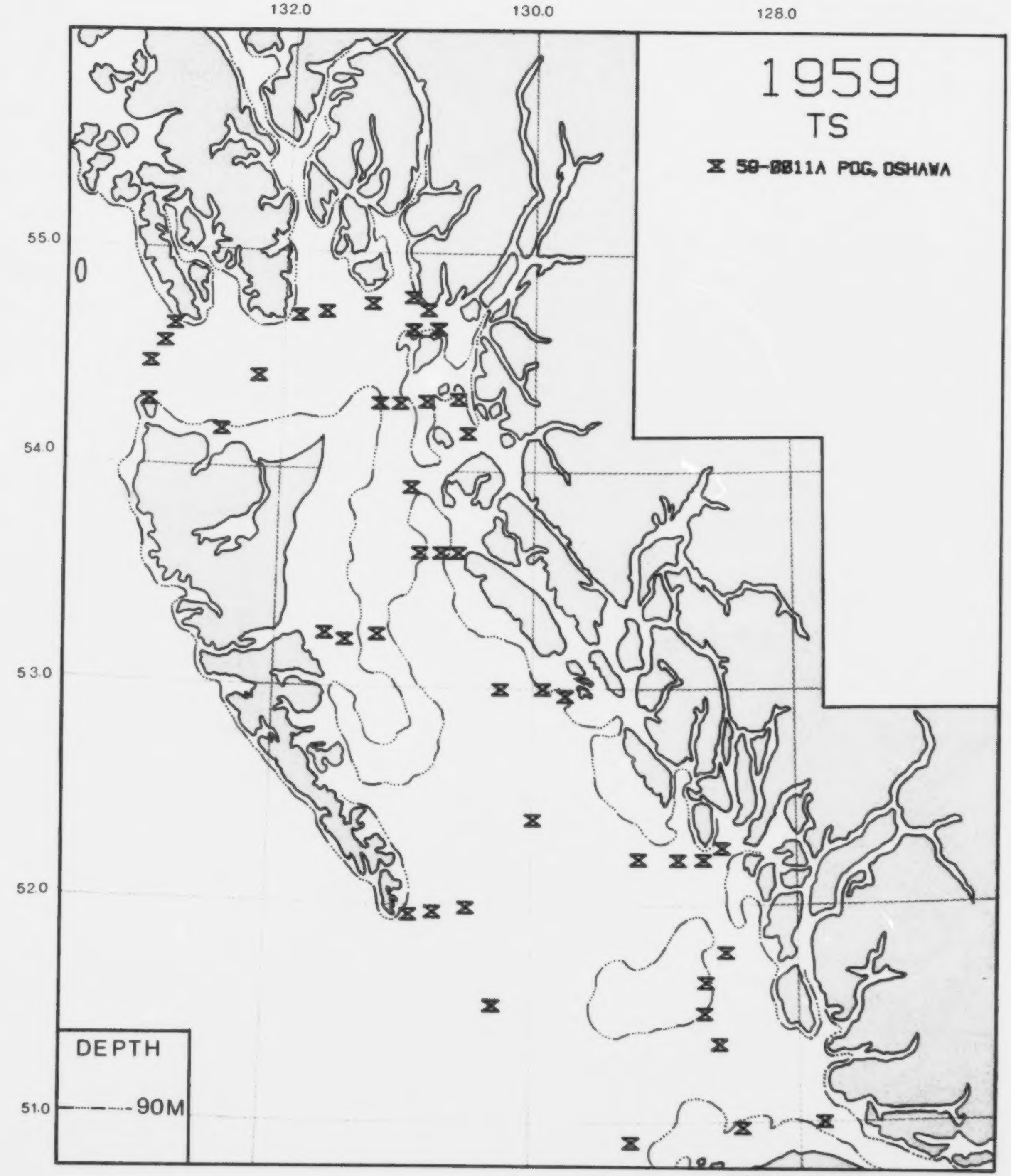
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1959
TS
▲ 34-0002 AES
⊡ 37-0009 MOT
▼ 39-0001 MOT
◇ 40-0004 MOT
⊙ 54-0018 MOT
⧗ 59-0011A POG, OSHAWA
◀ 59-0011B POG, OSHAWA
↑ 59-0011C OSHAWA
✱ 59-0018 POG, OSHAWA
← 59-0019 POG, OSHAWA
WL
✳ 06-0002 CHS
+ 59-0017 CHS
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983


132.0
130.0
128.0
1959
TS
⧗ 59-0011A POG, OSHAWA
55.0
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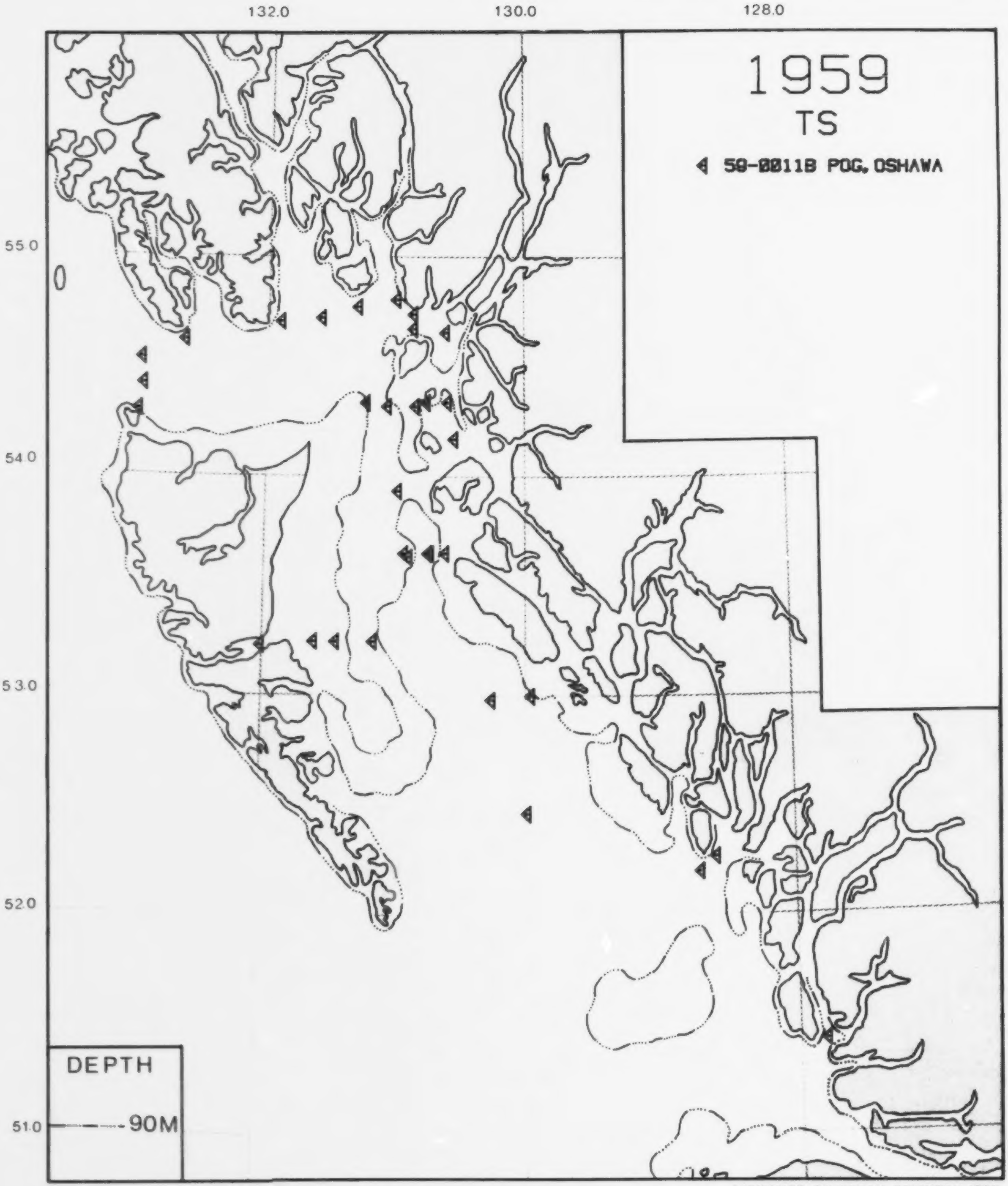
53.0
52.0
51.0
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983


132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1959
TS
◄ 59-0011B POG, OSHAWA
DEPTH
-----90M

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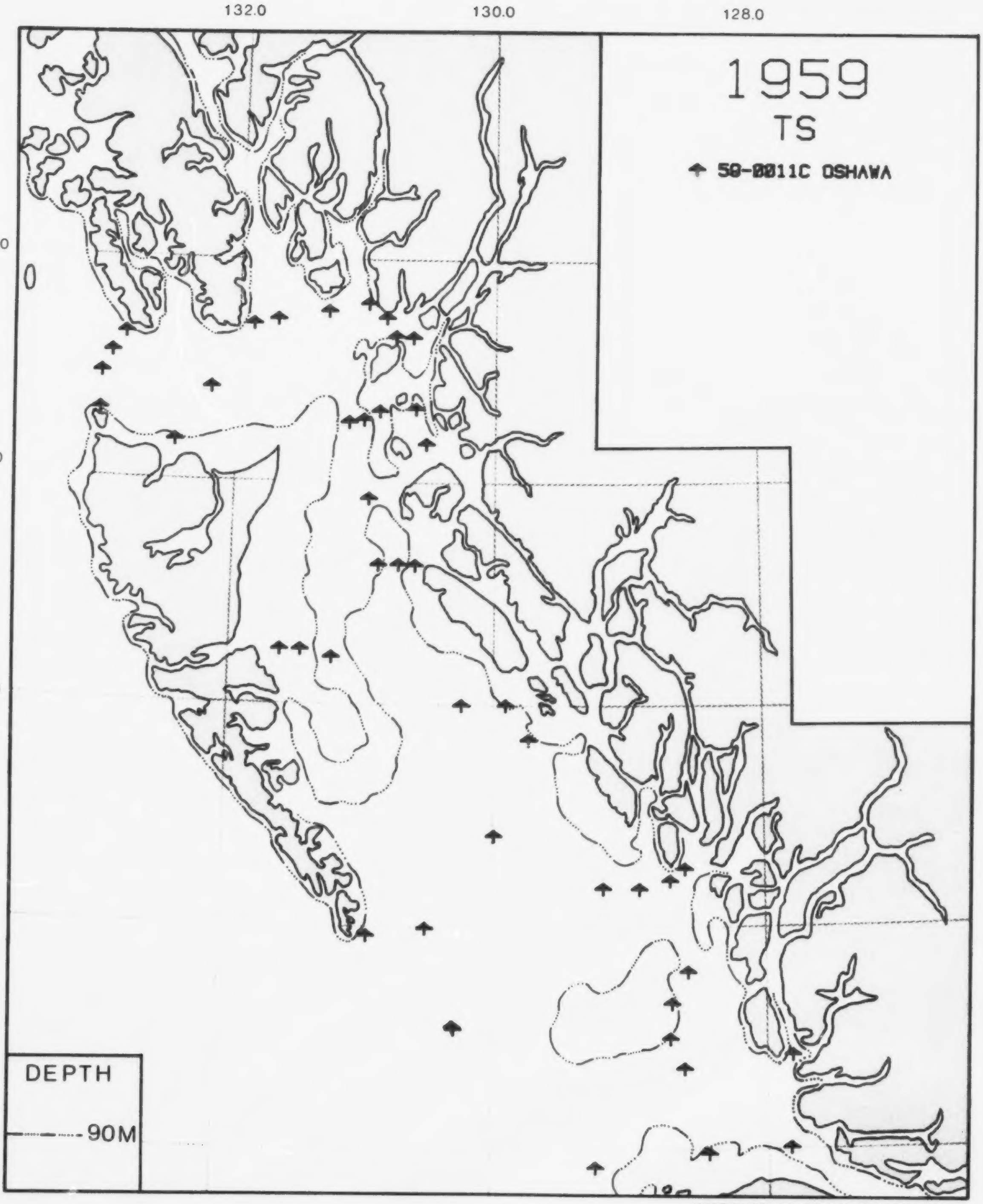
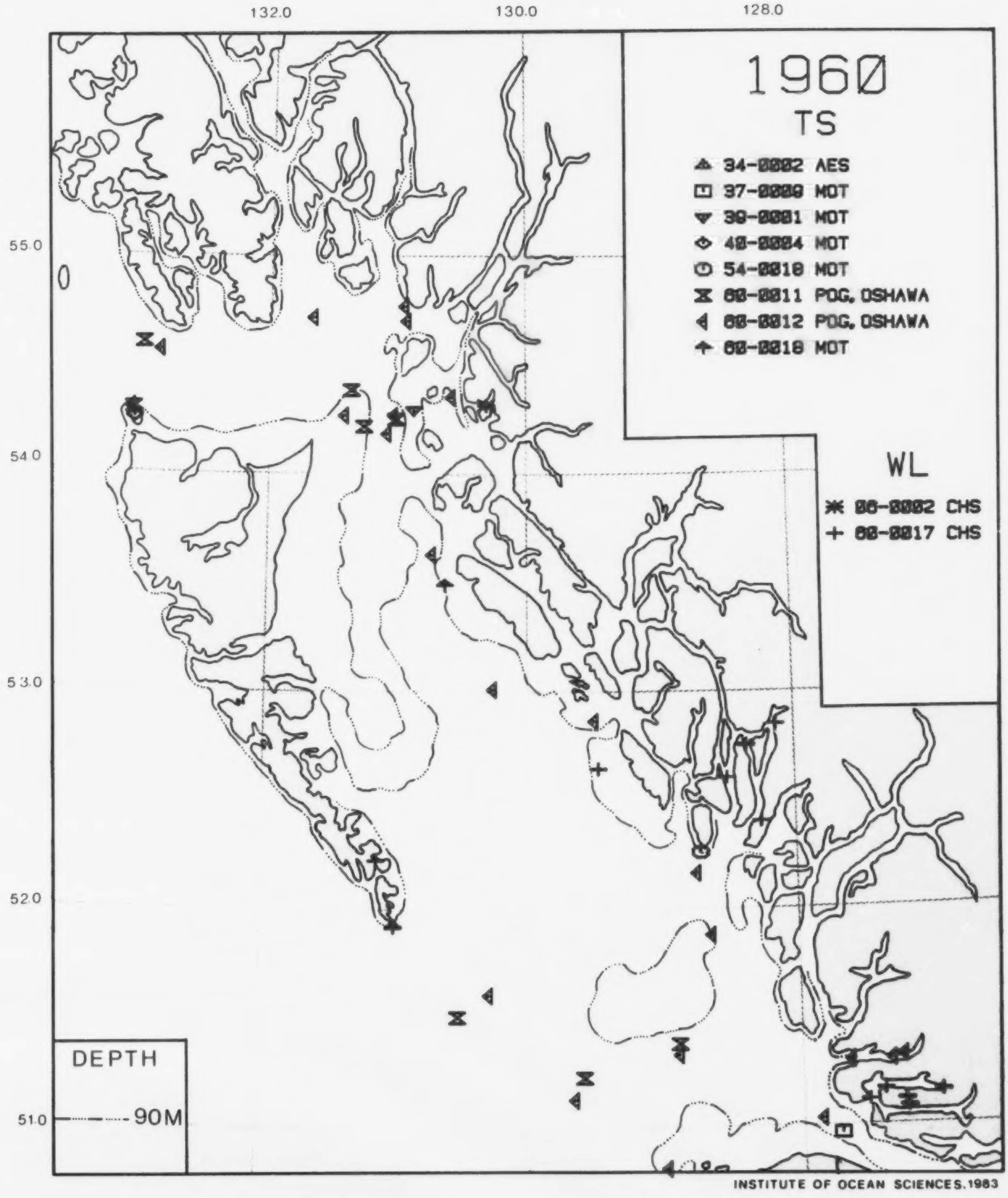

132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1959
TS
✦ 59-0011C OSHAWA
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES, 1983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55.0
54.0
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52.0
51.0
1960
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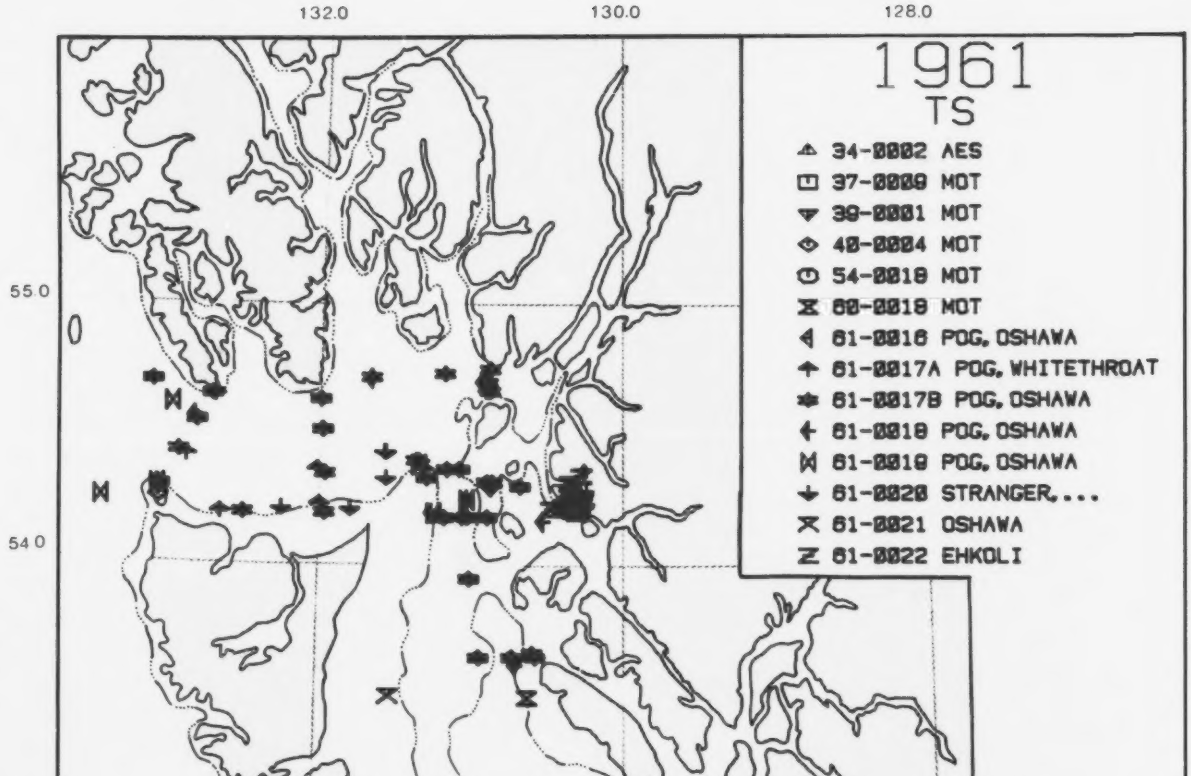
▲ 34-0002 AES
⊡ 37-0009 MOT
▼ 39-0001 MOT
◇ 40-0004 MOT
⏀ 54-0018 MOT
⧗ 60-0011 POG. OSHAWA
◀ 60-0012 POG. OSHAWA
↑ 60-0018 MOT
WL
✱ 60-0002 CHS
+ 60-0017 CHS
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES, 1983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1961
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◻ 37-0009 MOT
▼ 39-0001 MOT
◇ 40-0004 MOT
○ 54-0018 MOT
⧗ 60-0018 MOT
◁ 61-0016 POG, OSHAWA
↑ 61-0017A POG, WHITETHROAT
✱ 61-0017B POG, OSHAWA
← 61-0018 POG, OSHAWA
⋈ 61-0019 POG, OSHAWA
↓ 61-0020 STRANGER, ...
⨯ 61-0021 OSHAWA
Z 61-0022 EHKOLI
DEPTH
90M

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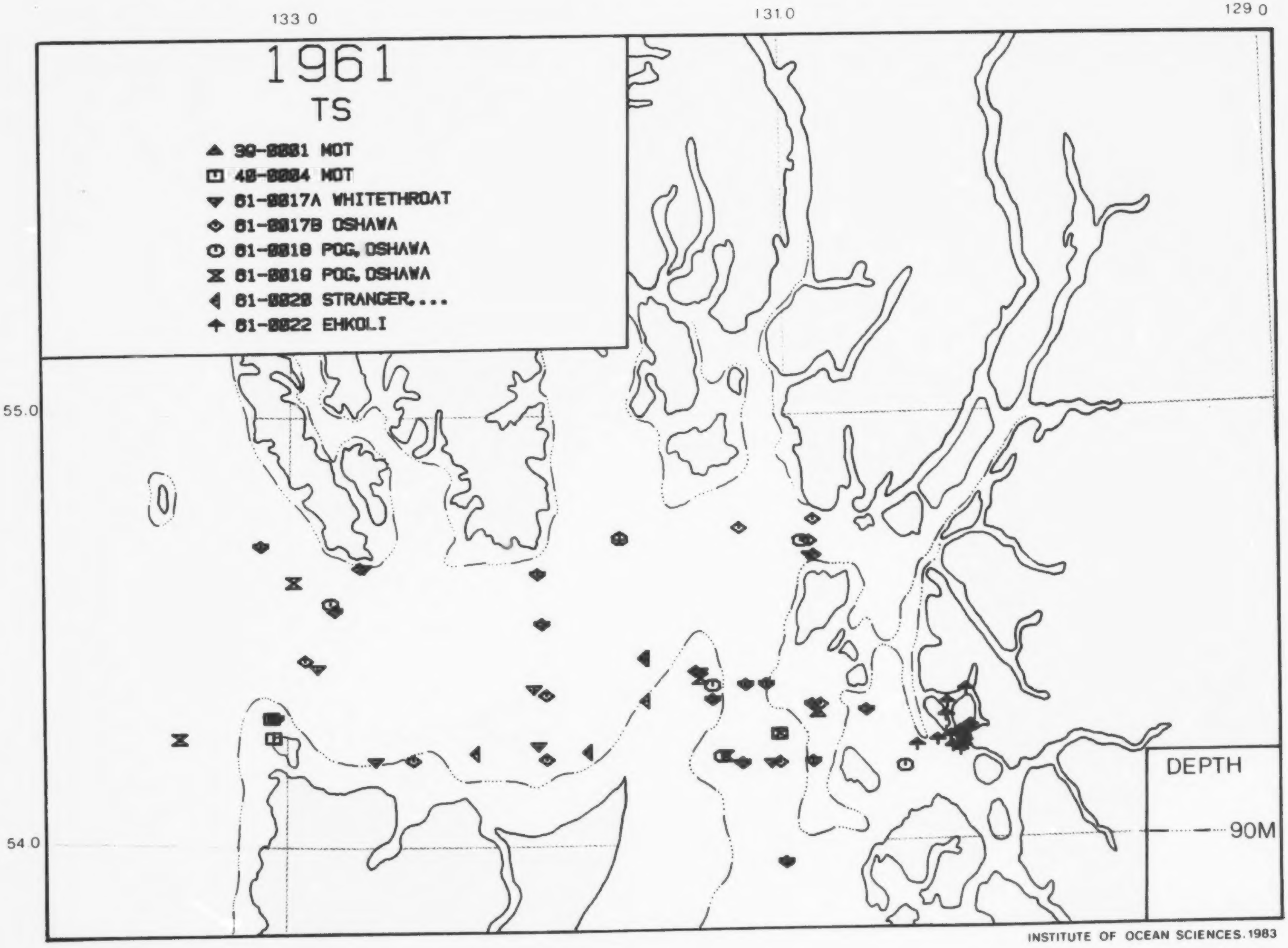
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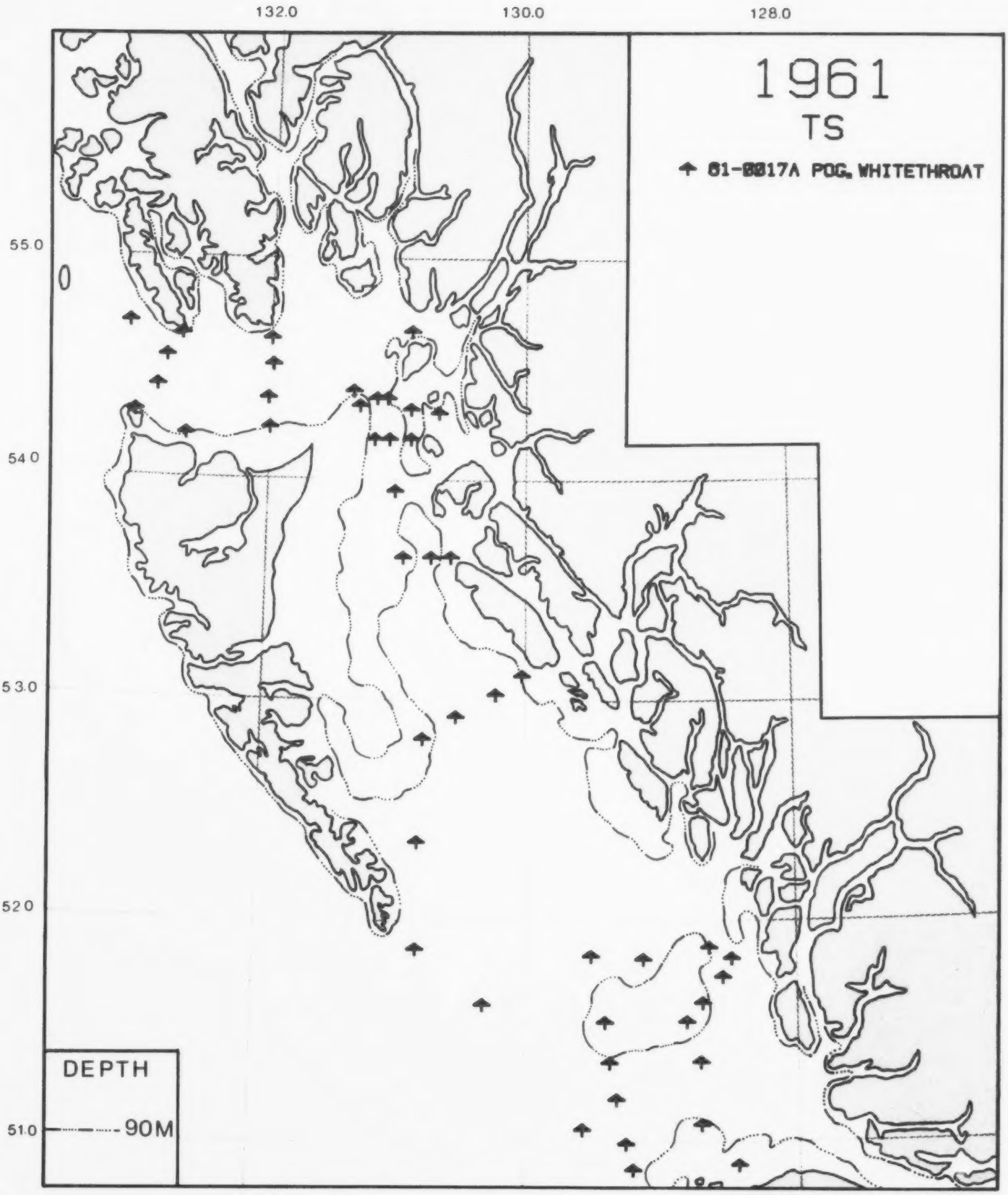
◇ 61-0017B OSHAWA
○ 61-0018 POG, OSHAWA
⧗ 61-0019 POG, OSHAWA
◀ 61-0020 STRANGER,...
✦ 61-0022 EHKOLI
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES.1983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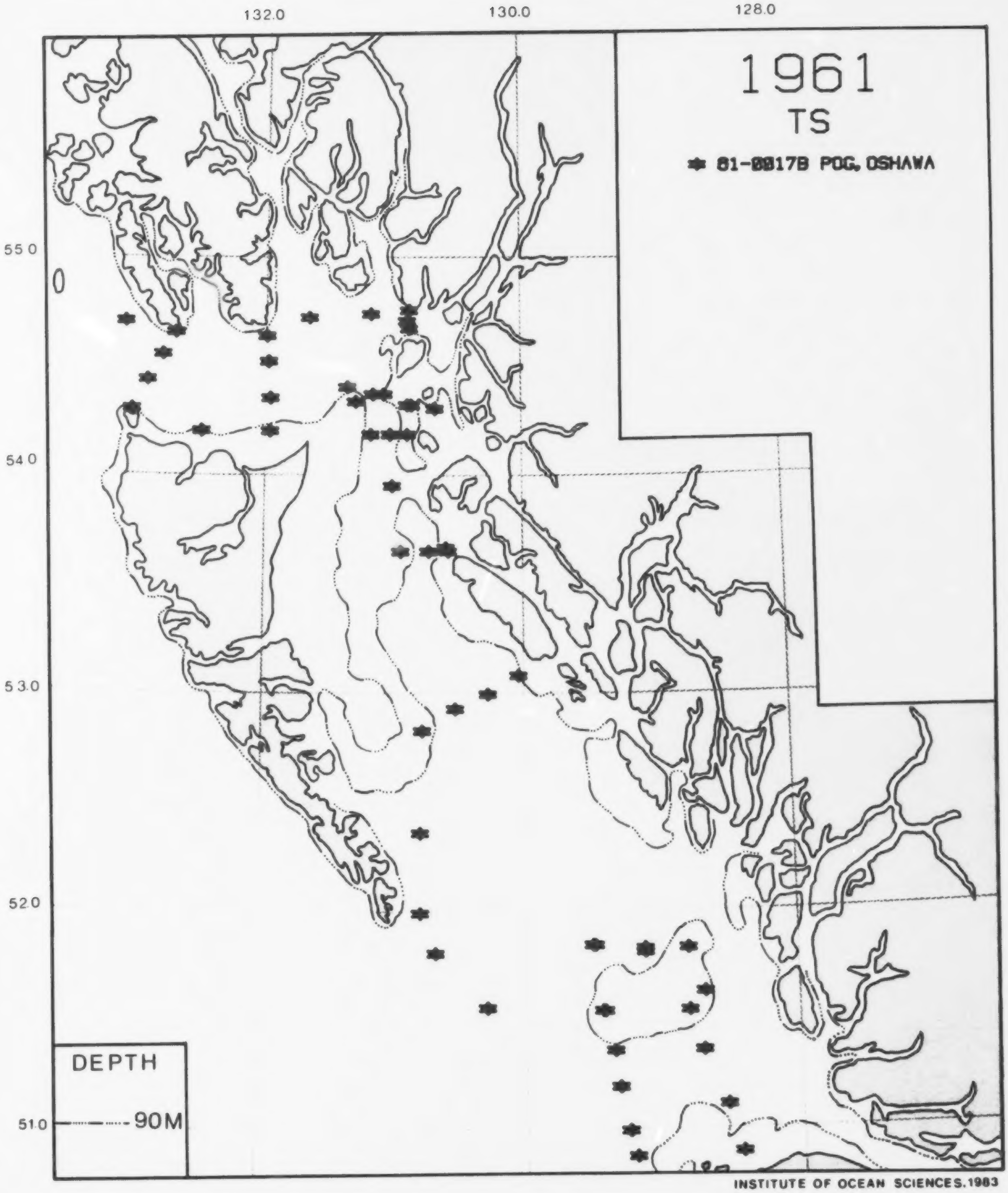
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983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1961
TS
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DEPTH
90M

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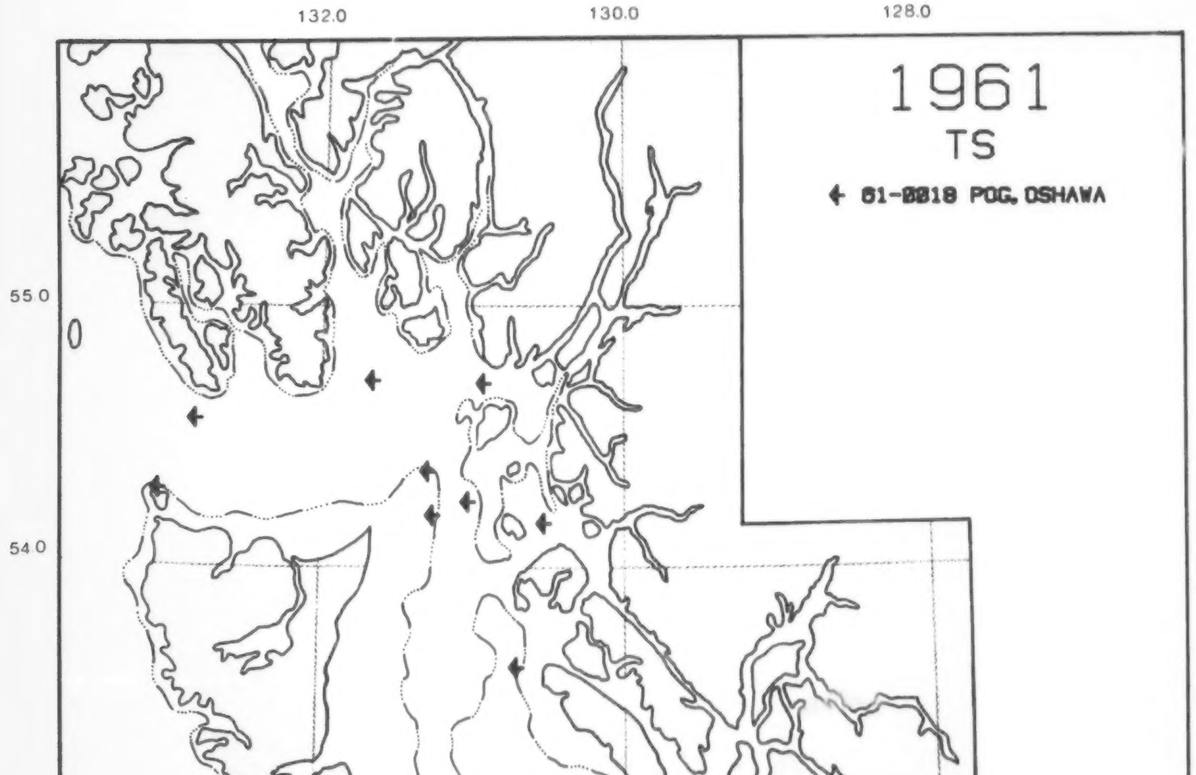
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DEPTH
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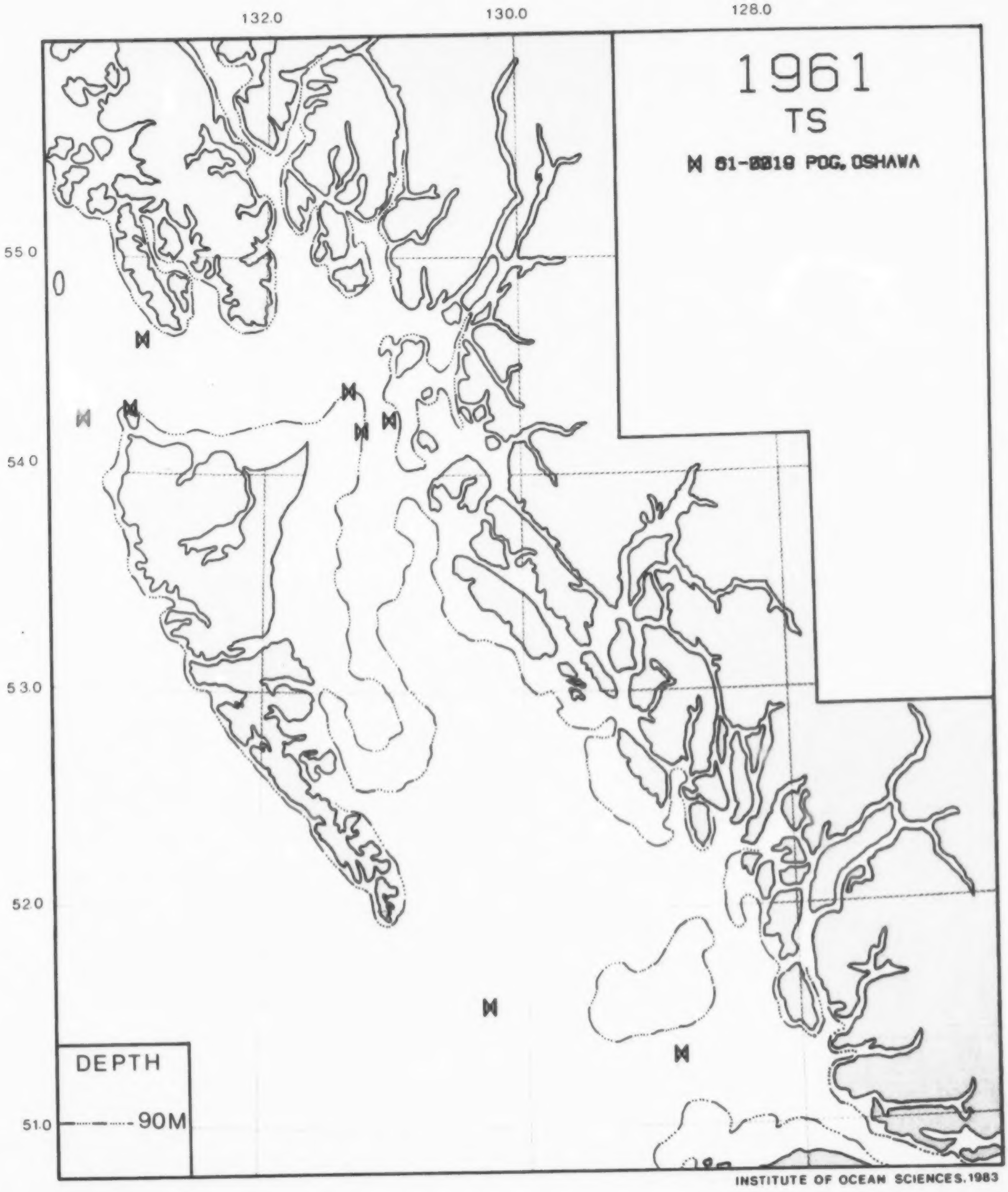
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DEPTH
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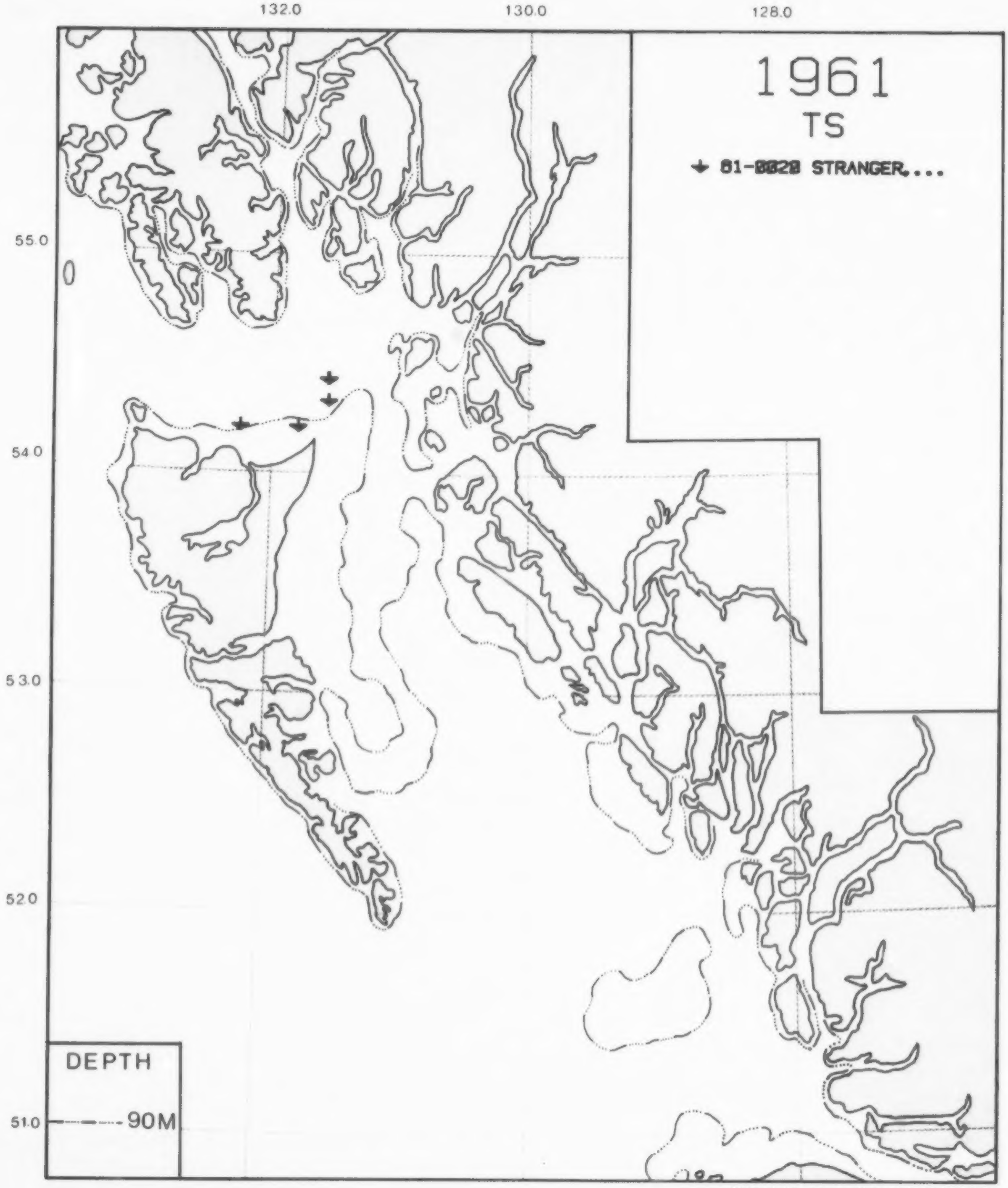
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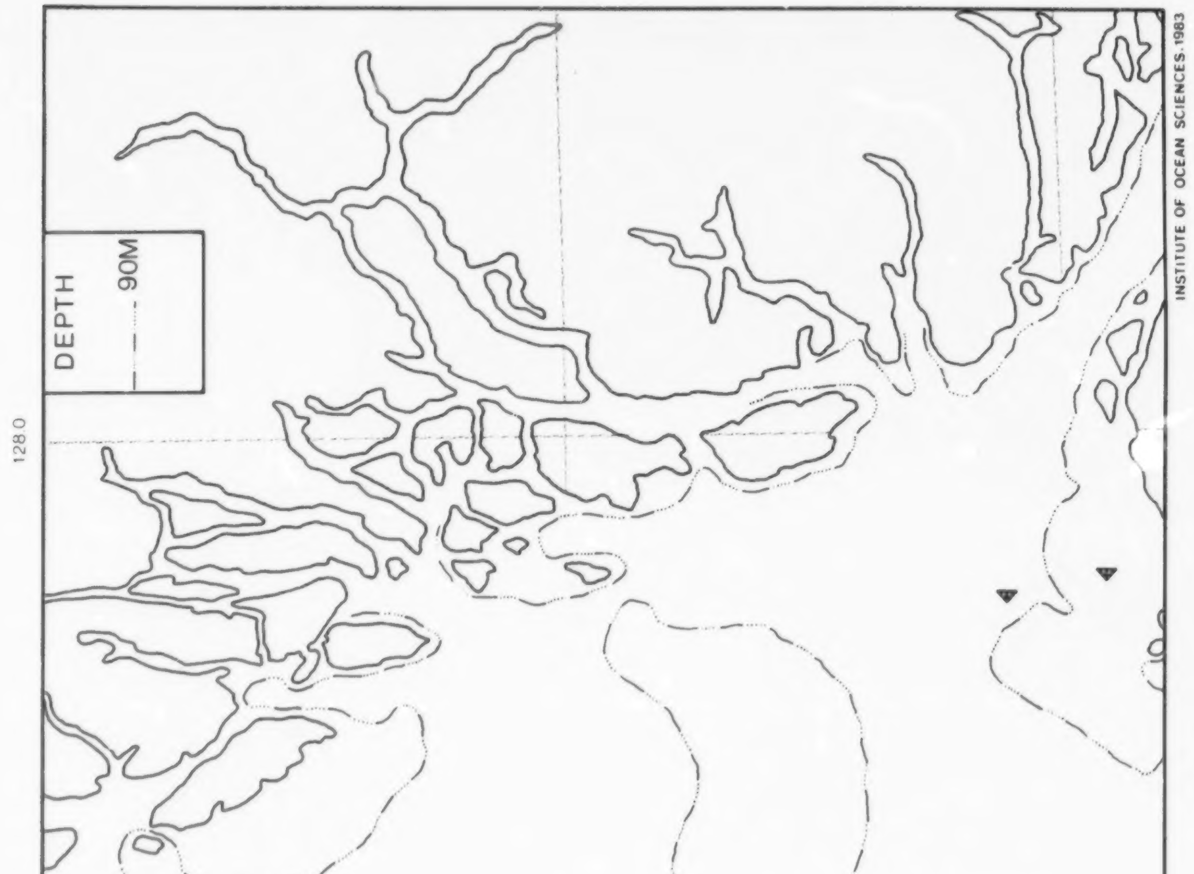
INSTITUTE OF OCEAN SCIENCES.1983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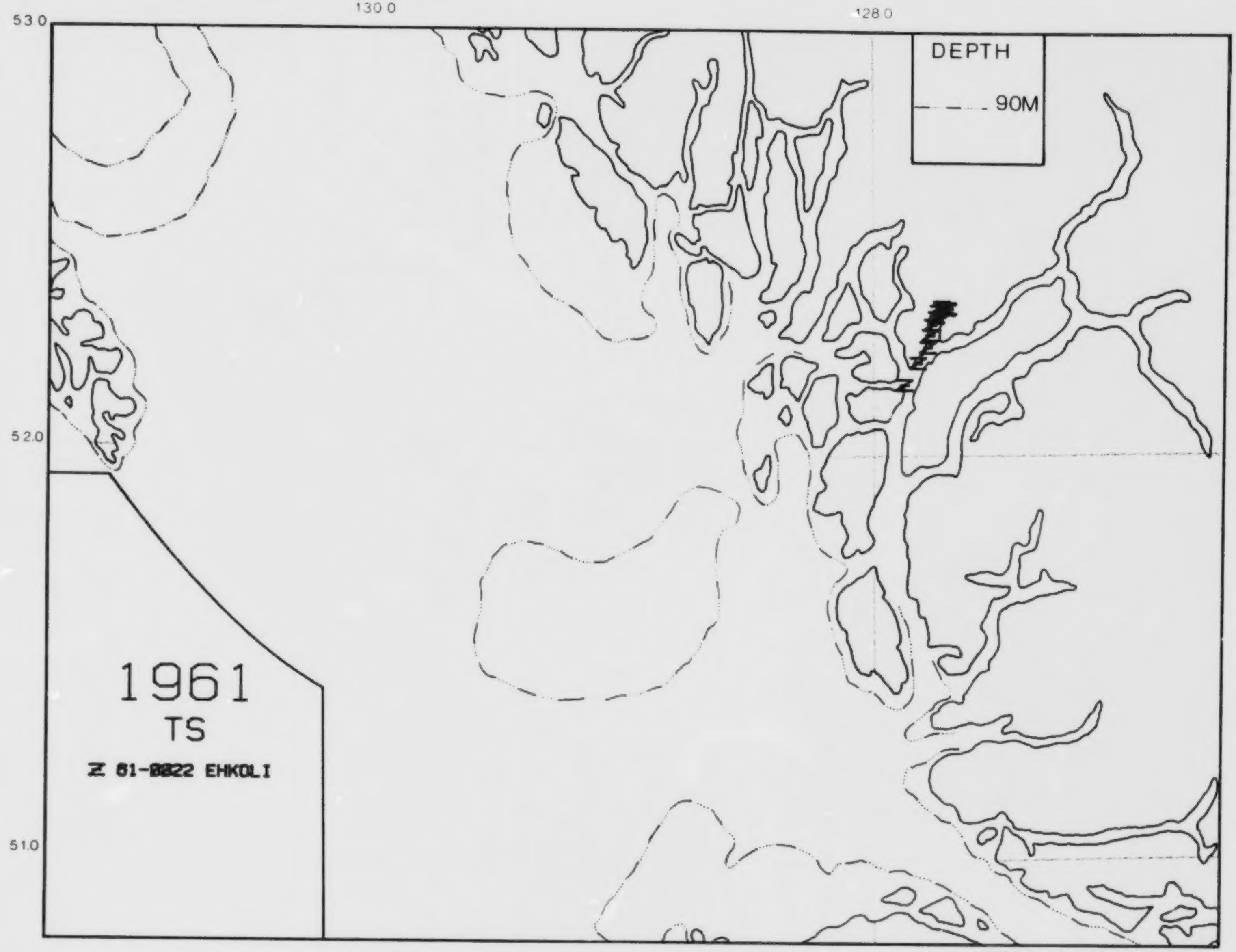
61-0016 POG, OSHAWA
INSTITUTE OF OCEAN SCIENCES 1983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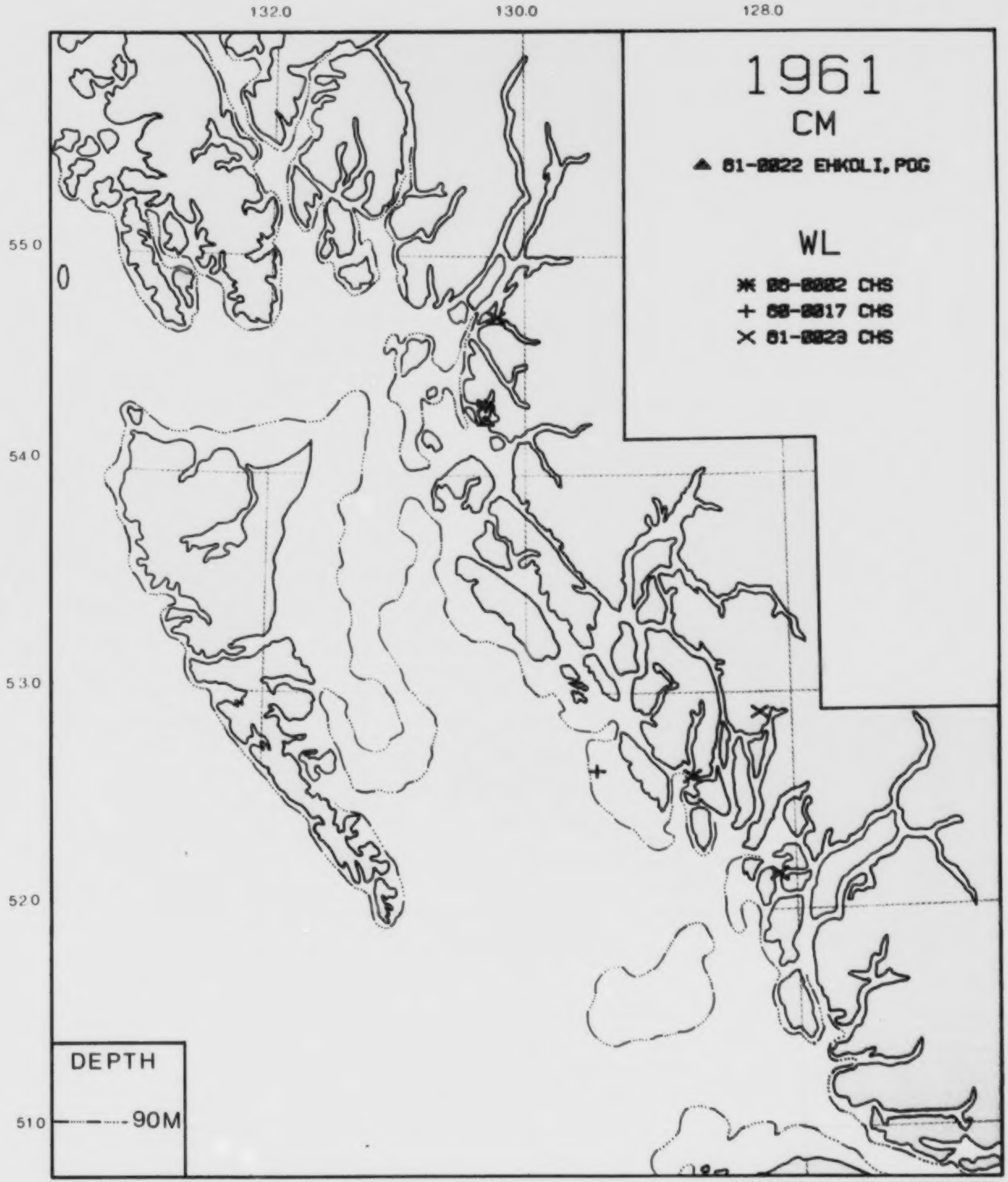
DEPTH
90M
1961
TS
Z 61-0022 EHKOLI

INSTITUTE OF OCEAN SCIENCES.1983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52.0
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1961
CM
▲ 61-0022 EHKOLI,POG
WL
✱ 08-0002 CHS
+ 60-0017 CHS
× 61-0023 CHS
DEPTH
-90M

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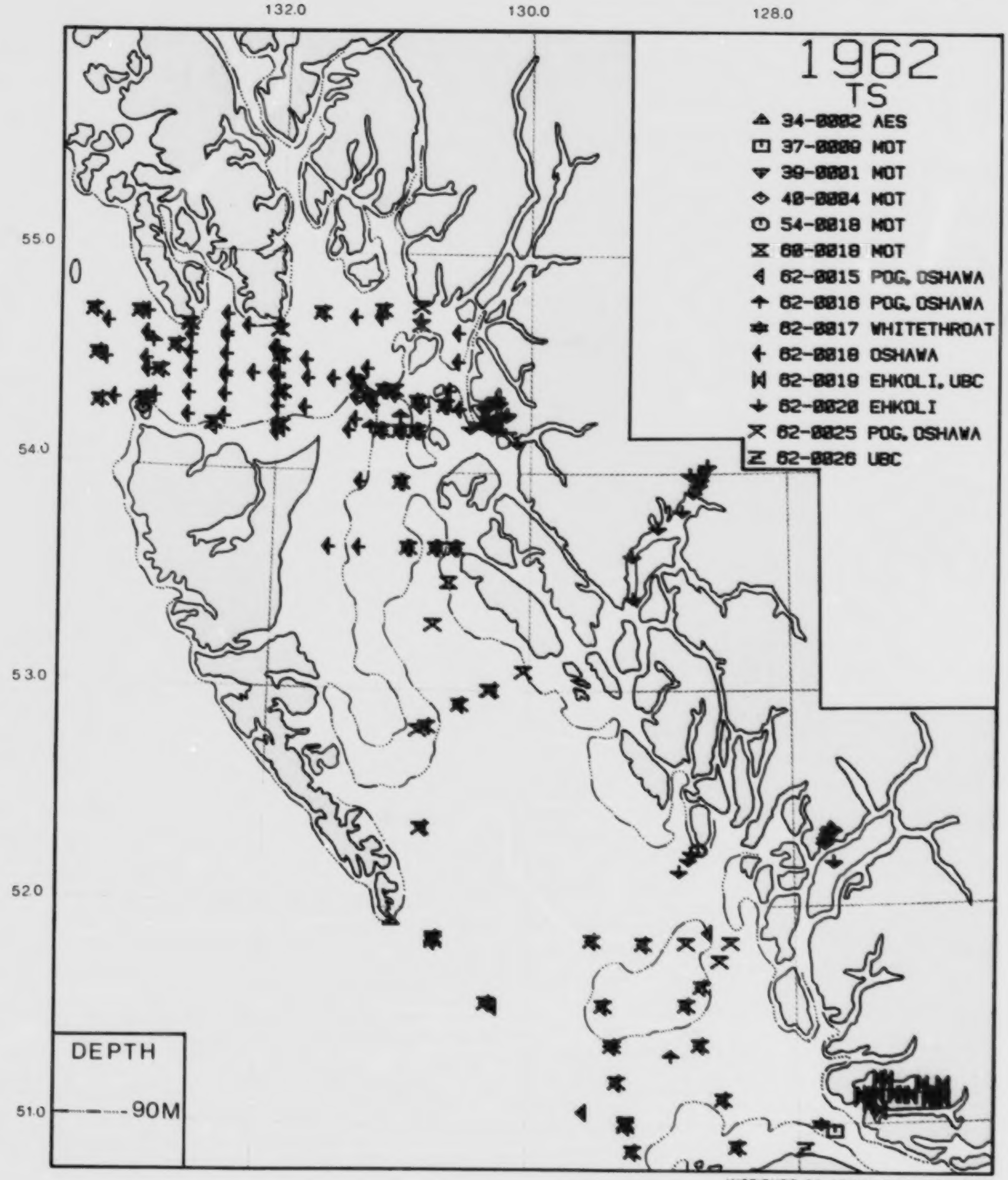
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1962
TS
34-0002 AES
37-0000 MOT
39-0001 MOT
40-0004 MOT
54-0018 MOT
60-0018 MOT
62-0015 POG. OSHAWA
62-0016 POG. OSHAWA
62-0017 WHITETHROAT
62-0018 OSHAWA
62-0019 EHKOLI. UBC
62-0020 EHKOLI
62-0025 POG. OSHAWA
62-0026 UBC
55.0
54.0
53.0
52.0
51.0
DEPTH
90M

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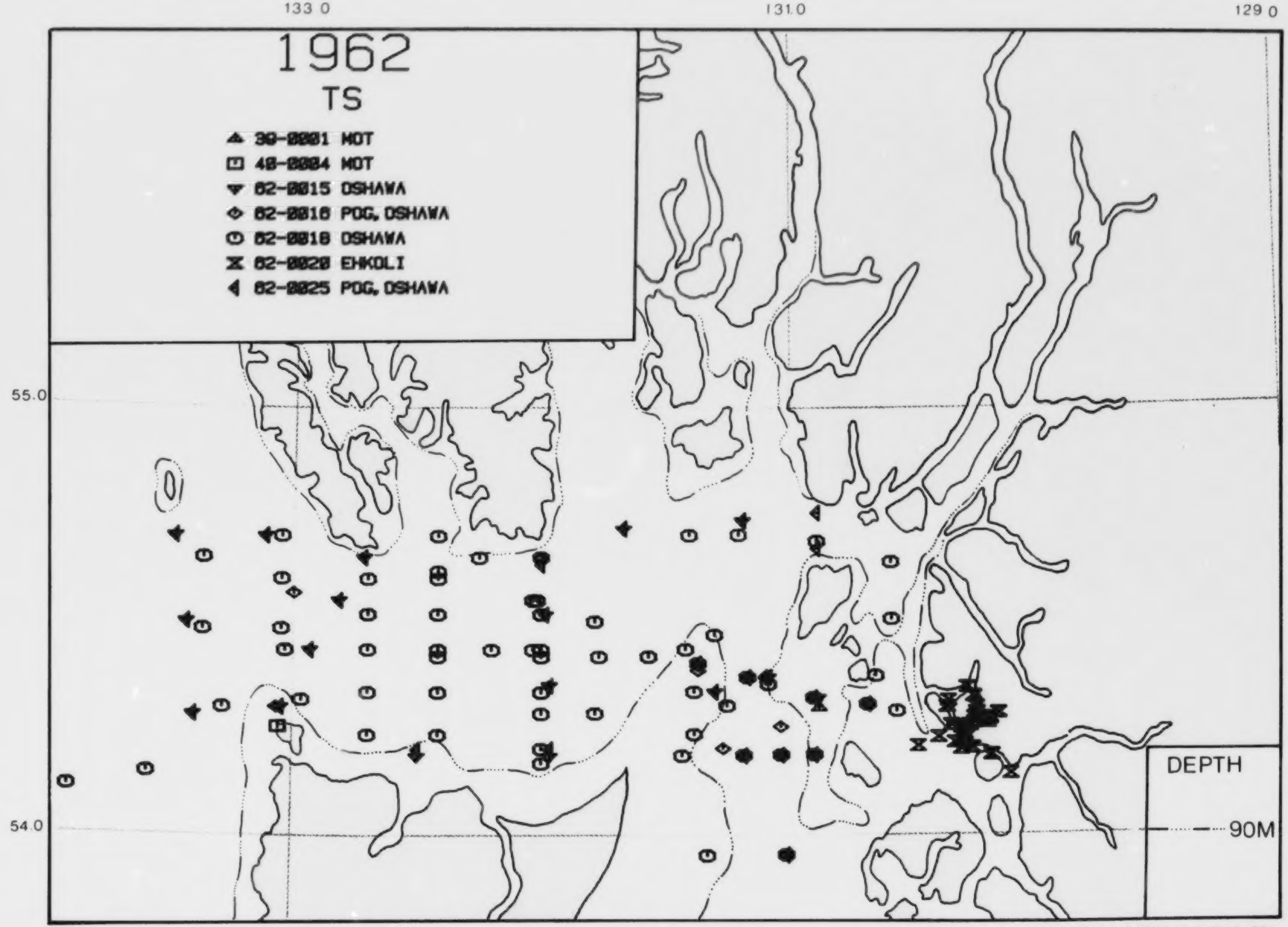
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1962
TS
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☐ 40-0004 MOT
▼ 62-0015 OSHAWA
◇ 62-0016 POG, OSHAWA
○ 62-0018 OSHAWA
⧗ 62-0020 EHKOLI
◀ 62-0025 POG, OSHAWA
DEPTH
90M

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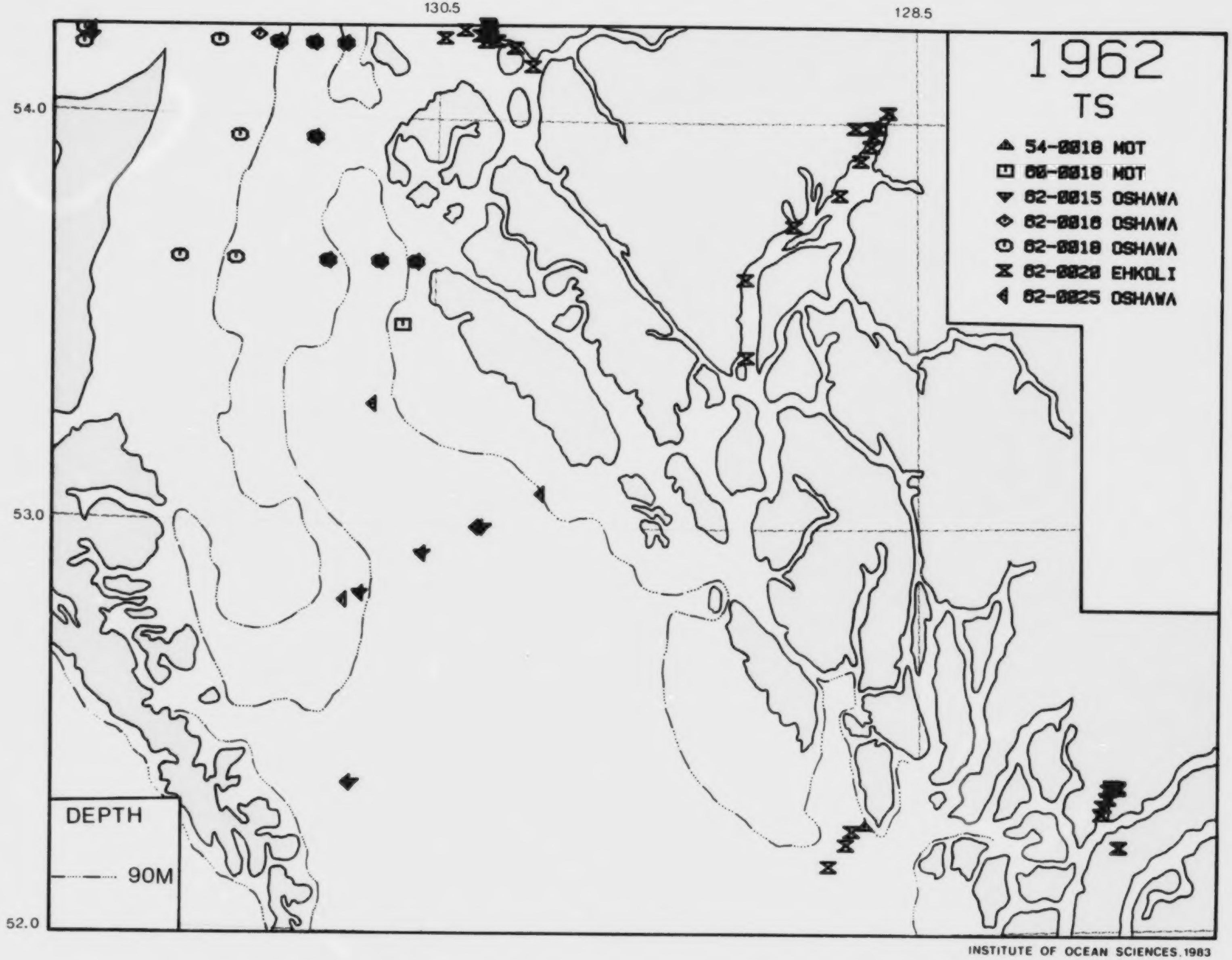
1962
TS
▲ 54-0018 MOT
◻ 60-0018 MOT
▼ 62-0015 OSHAWA
◇ 62-0016 OSHAWA
○ 62-0018 OSHAWA
⧗ 62-0020 EHKOLI
◀ 62-0025 OSHAWA
130.5
128.5
54.0
53.0
52.0
DEPTH
90M

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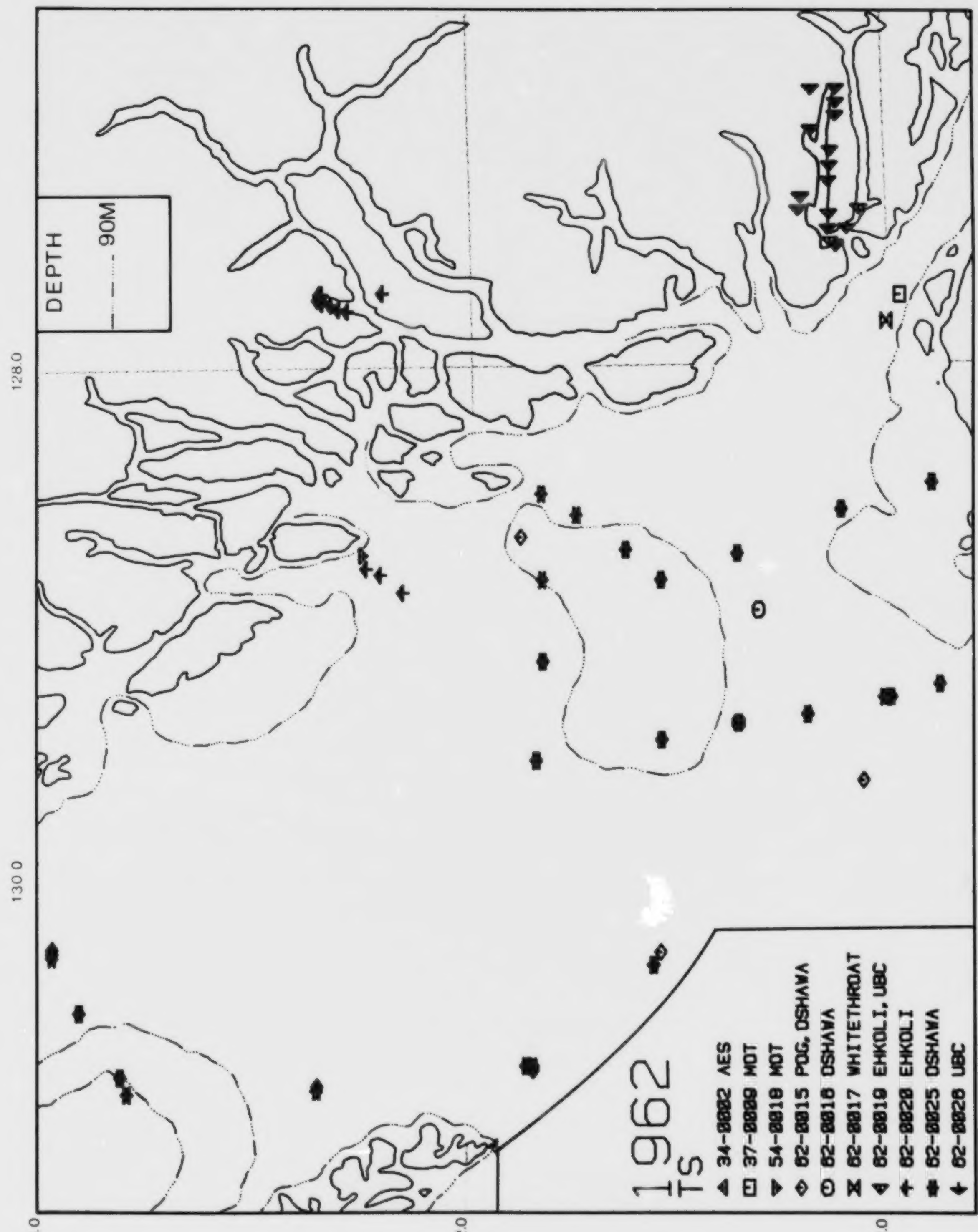
1962
TS
▲ 34-0002 AES
⊡ 37-0009 MOT
▼ 54-0010 MOT
◇ 62-0015 POG, OSHAWA
⊙ 62-0016 OSHAWA
⧗ 62-0017 WHITETHROAT
◀ 62-0019 EHKOLI, UBC
✦ 62-0020 EHKOLI
✱ 62-0025 OSHAWA
✚ 62-0026 UBC
DEPTH
90M
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52.0
51.0
130.0
128.0

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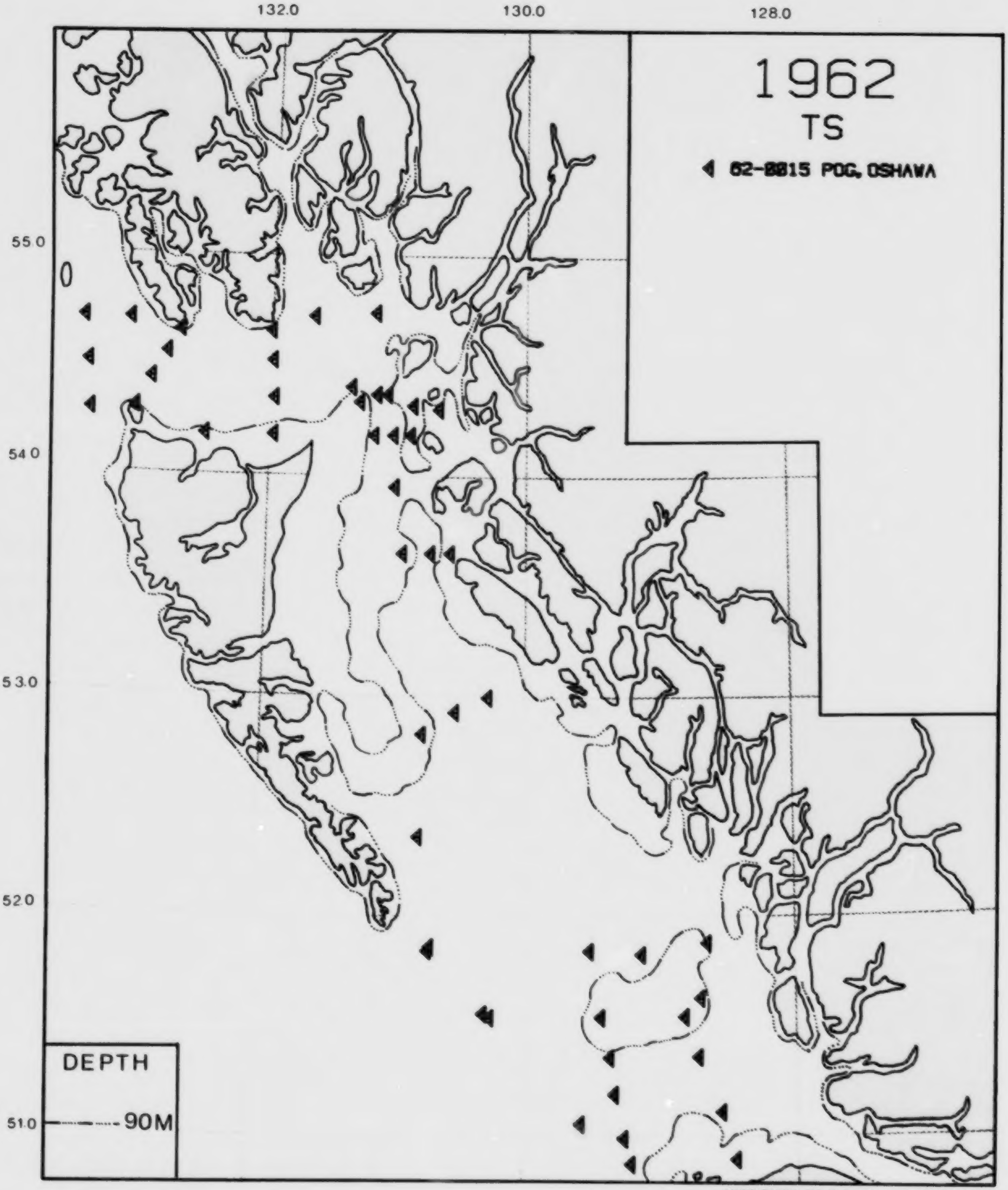
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55.0
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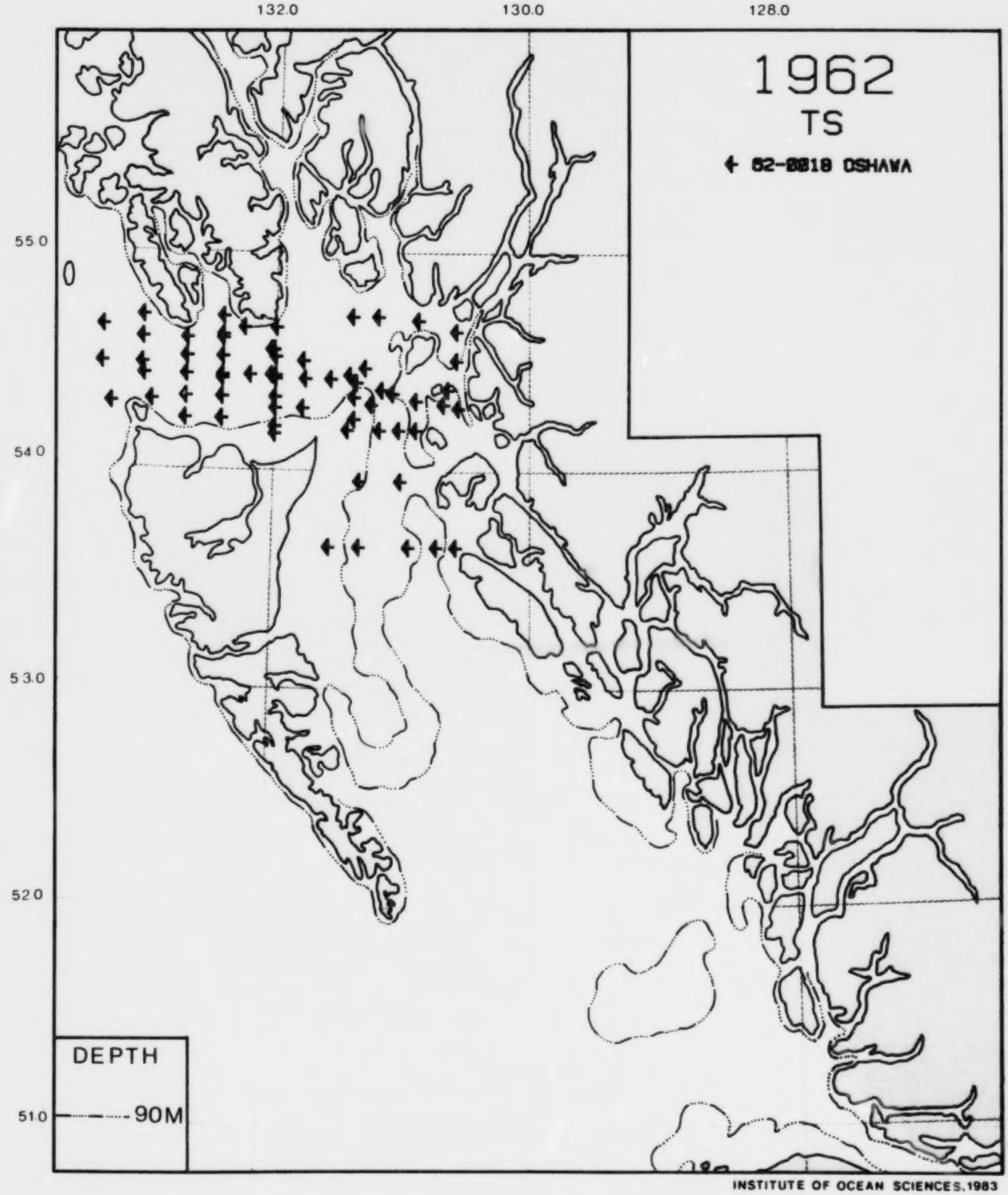
51.0
1962
TS
◀ 62-0015 POG, OSHAWA
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES, 1983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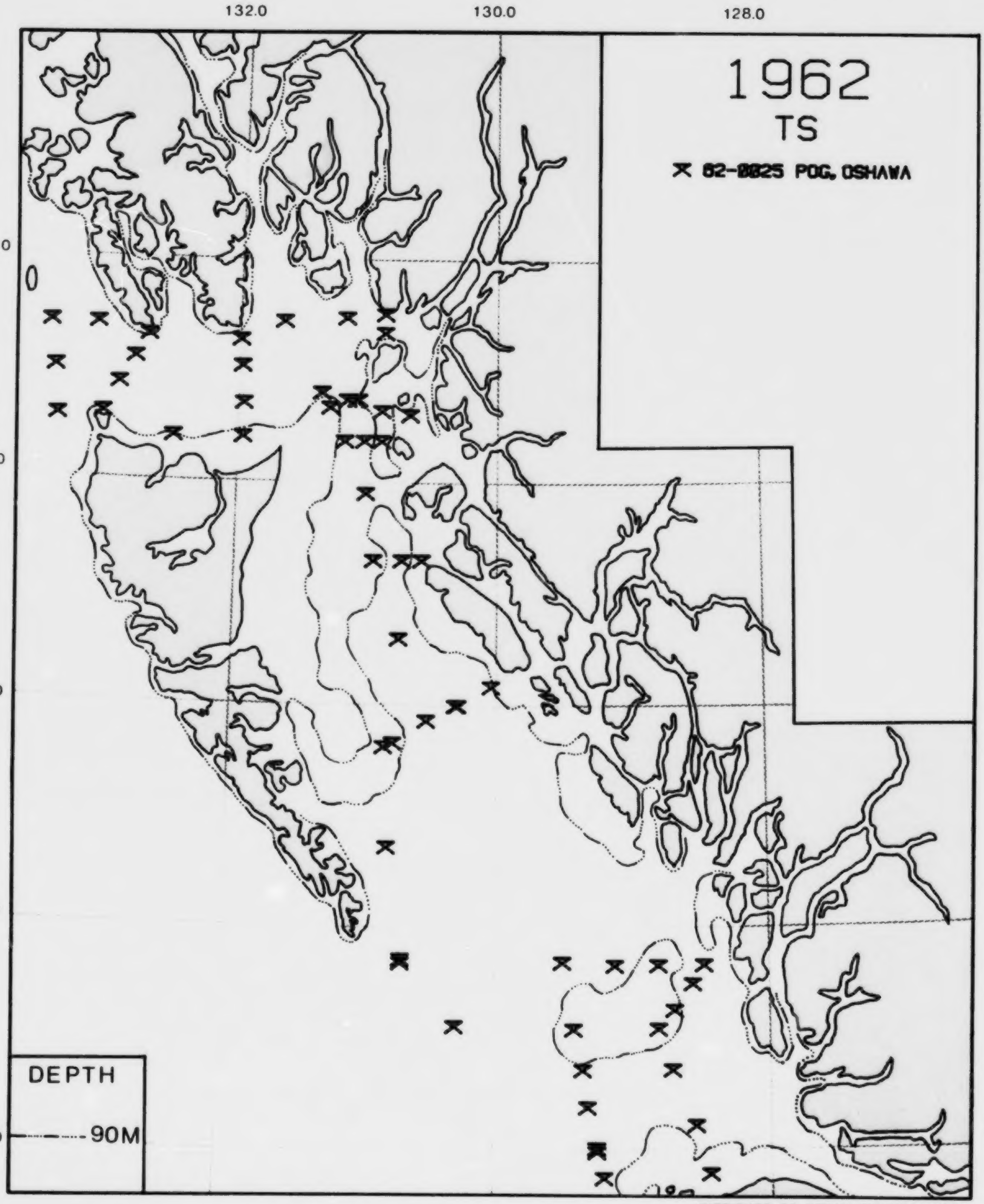
128.0
1962
TS
62-0018 OSHAWA
55.0
54.0
53.0
52.0
51.0
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983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130.0
128.0
55.0
54.0
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51.0
1962
TS
⌅ 62-0025 POG. OSHAWA
DEPTH
90M

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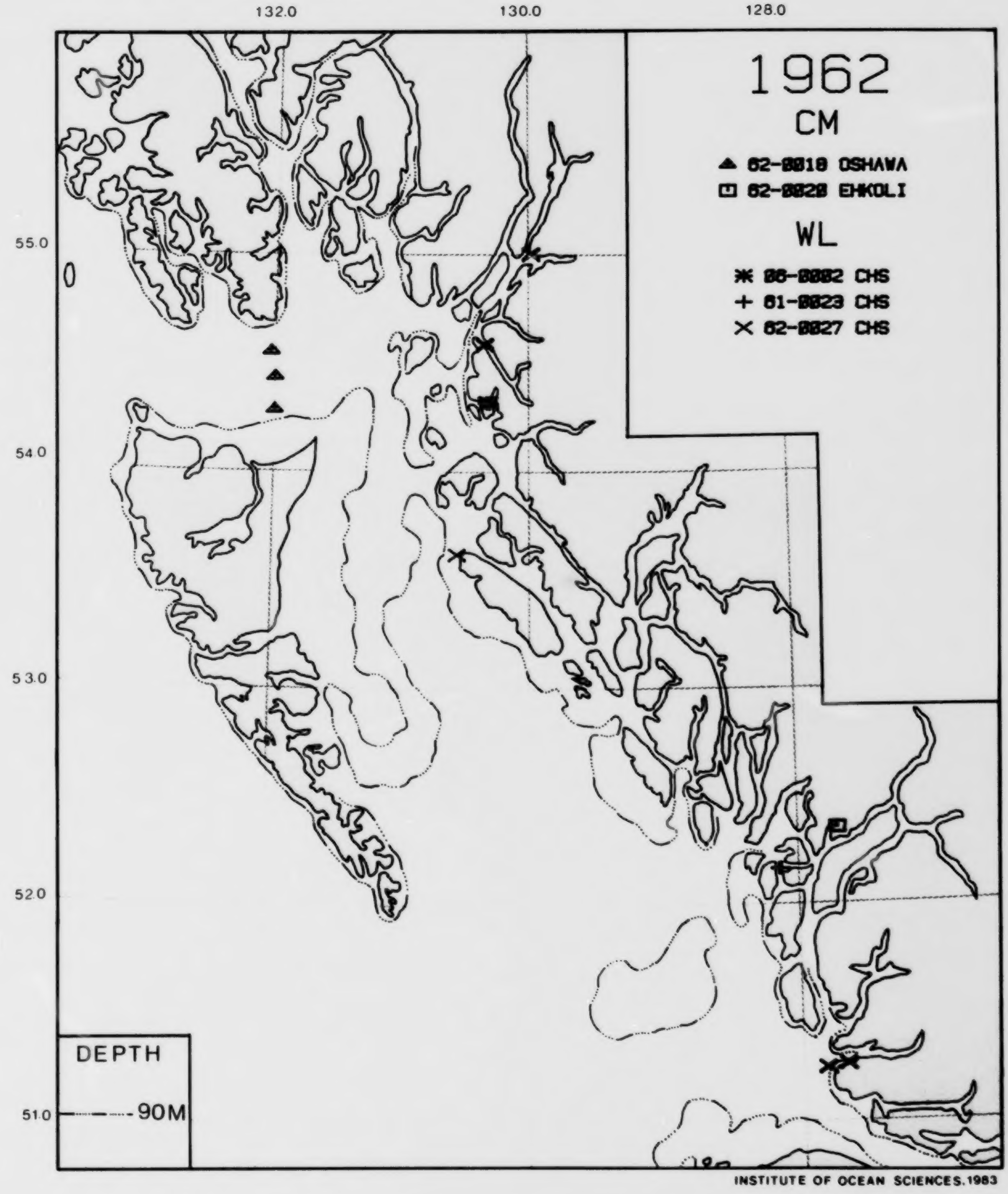
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128.0
55.0
54.0
53.0
52.0
51.0
1962
CM
▲ 62-0018 OSHAWA
▣ 62-0020 EHKOLI
WL
✳ 06-0002 CHS
+ 61-0023 CHS
× 62-0027 CHS
DEPTH
90M

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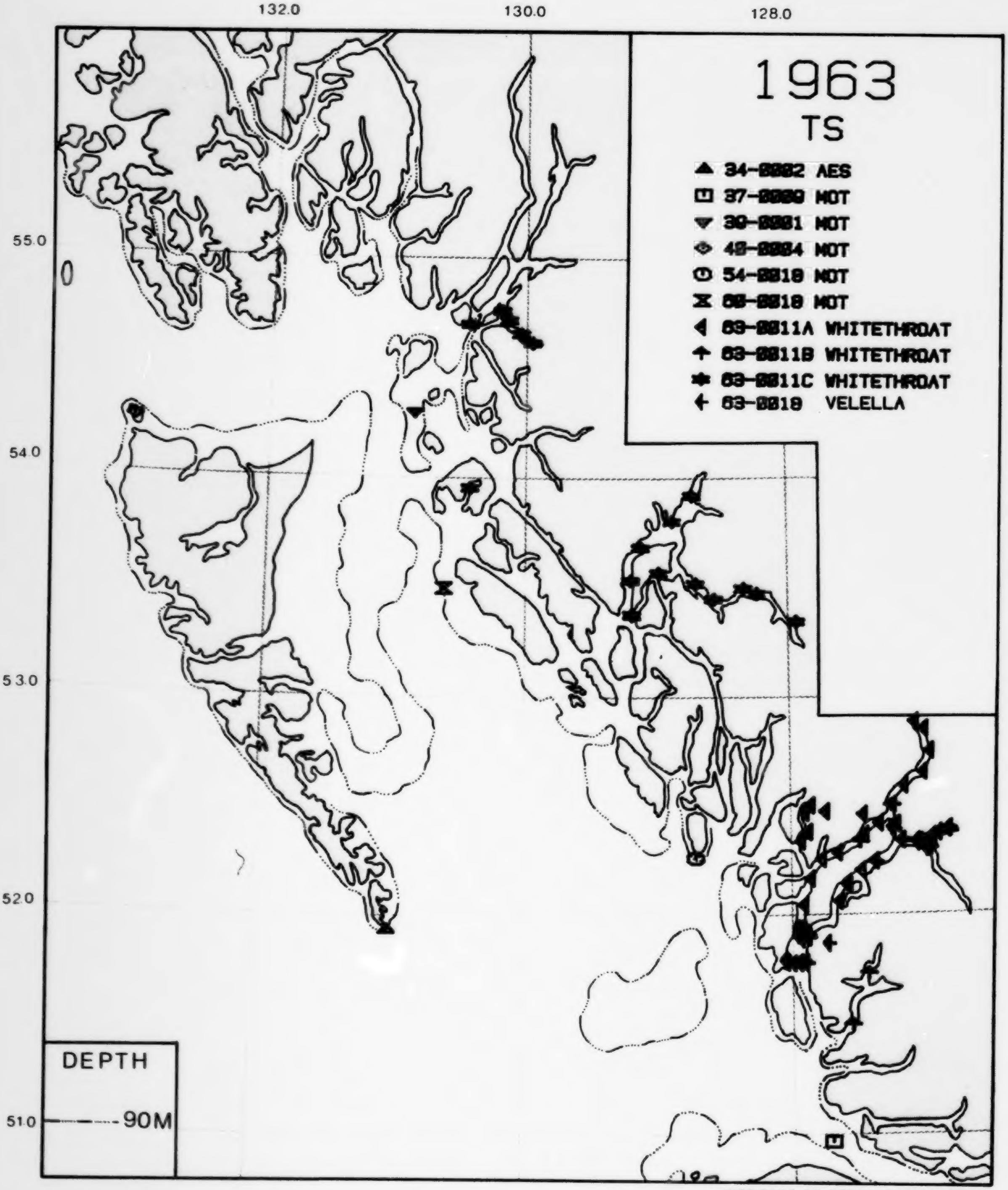
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128.0
55.0
54.0
53.0
52.0
51.0
1963
TS
▲ 34-0002 AES
⊔ 37-0009 MOT
▼ 39-0001 MOT
◇ 40-0004 MOT
○ 54-0010 MOT
⧗ 60-0010 MOT
◀ 63-0011A WHITETHROAT
↑ 63-0011B WHITETHROAT
✱ 63-0011C WHITETHROAT
← 63-0010 VELELLA
DEPTH
90M

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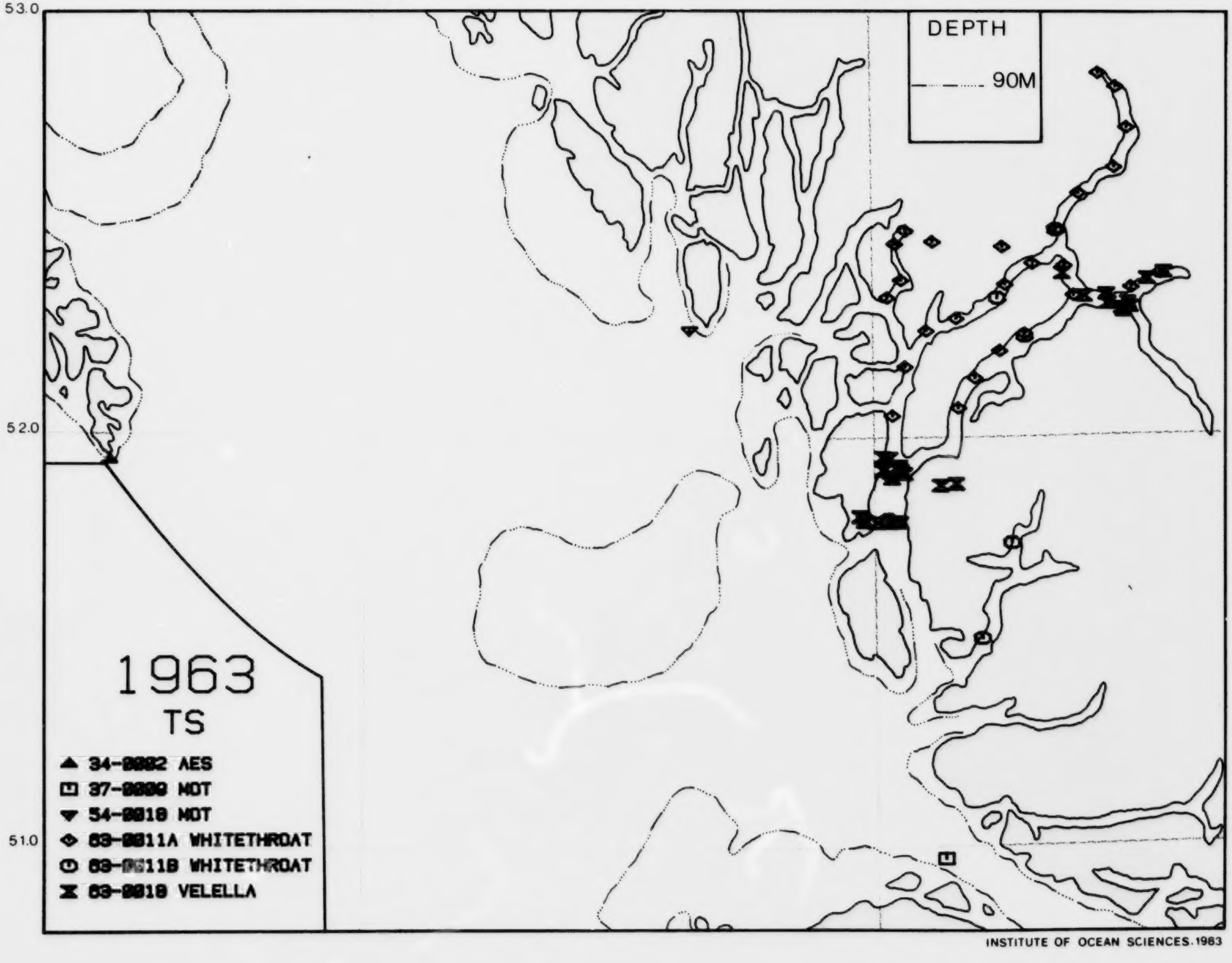
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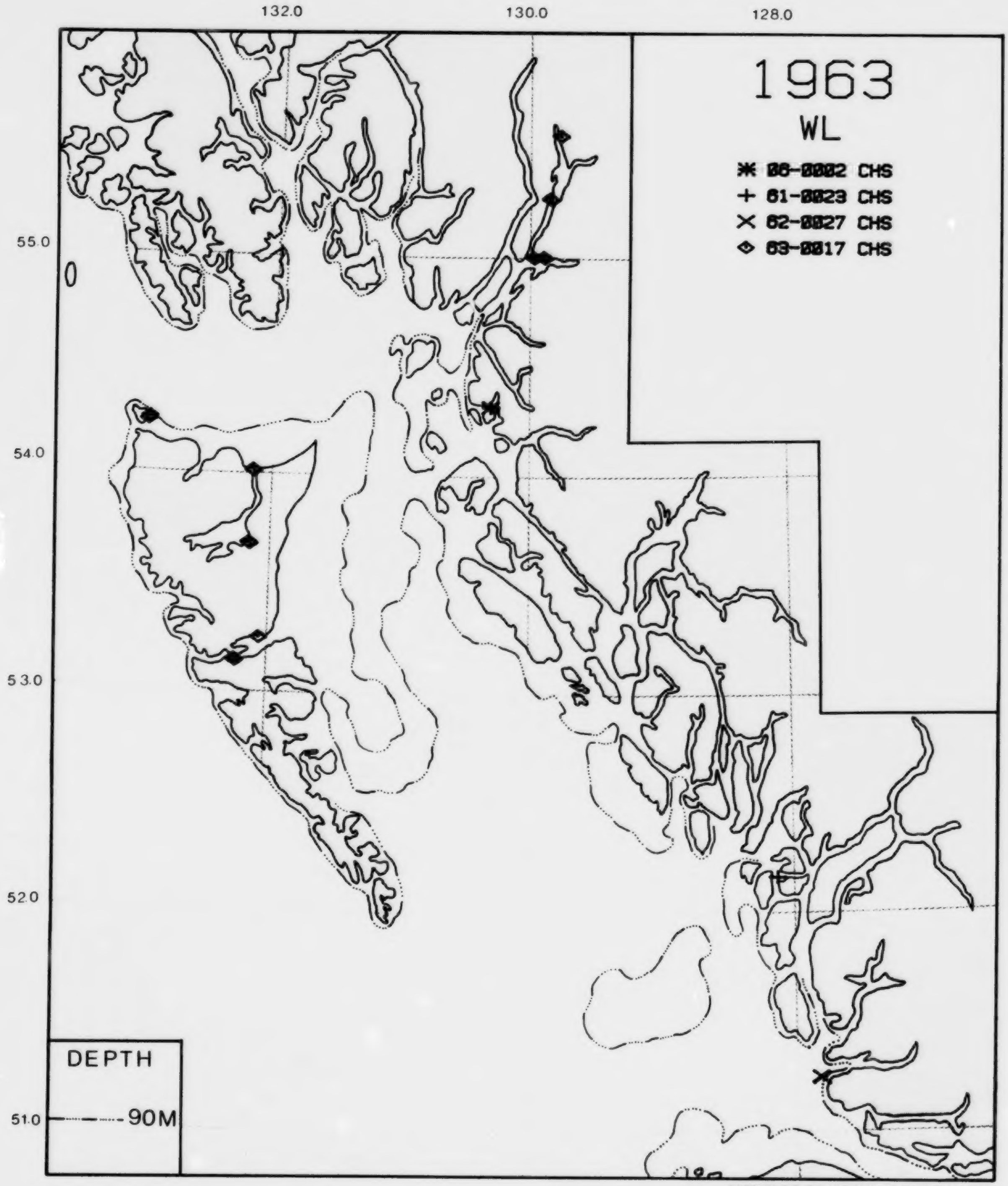
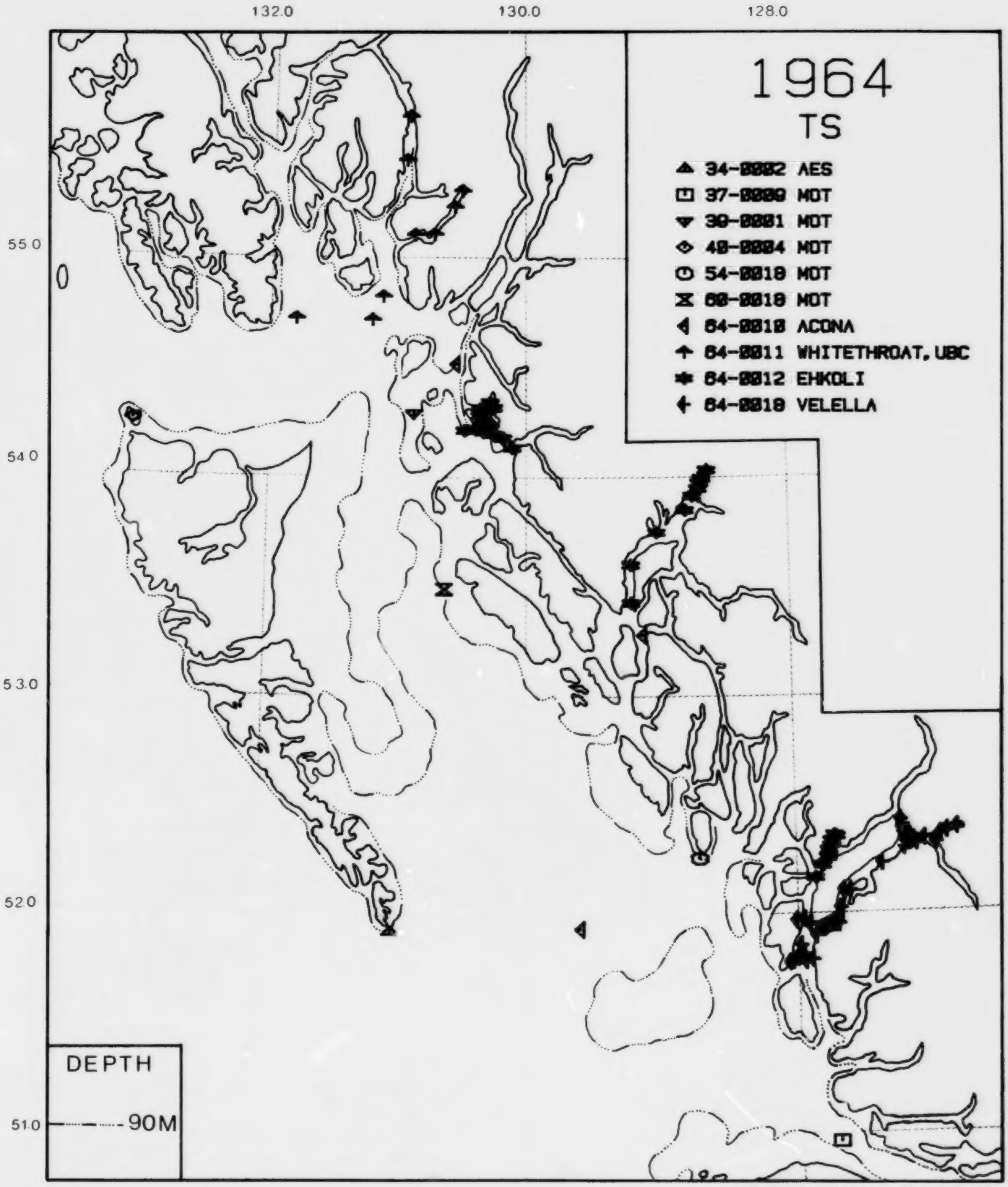
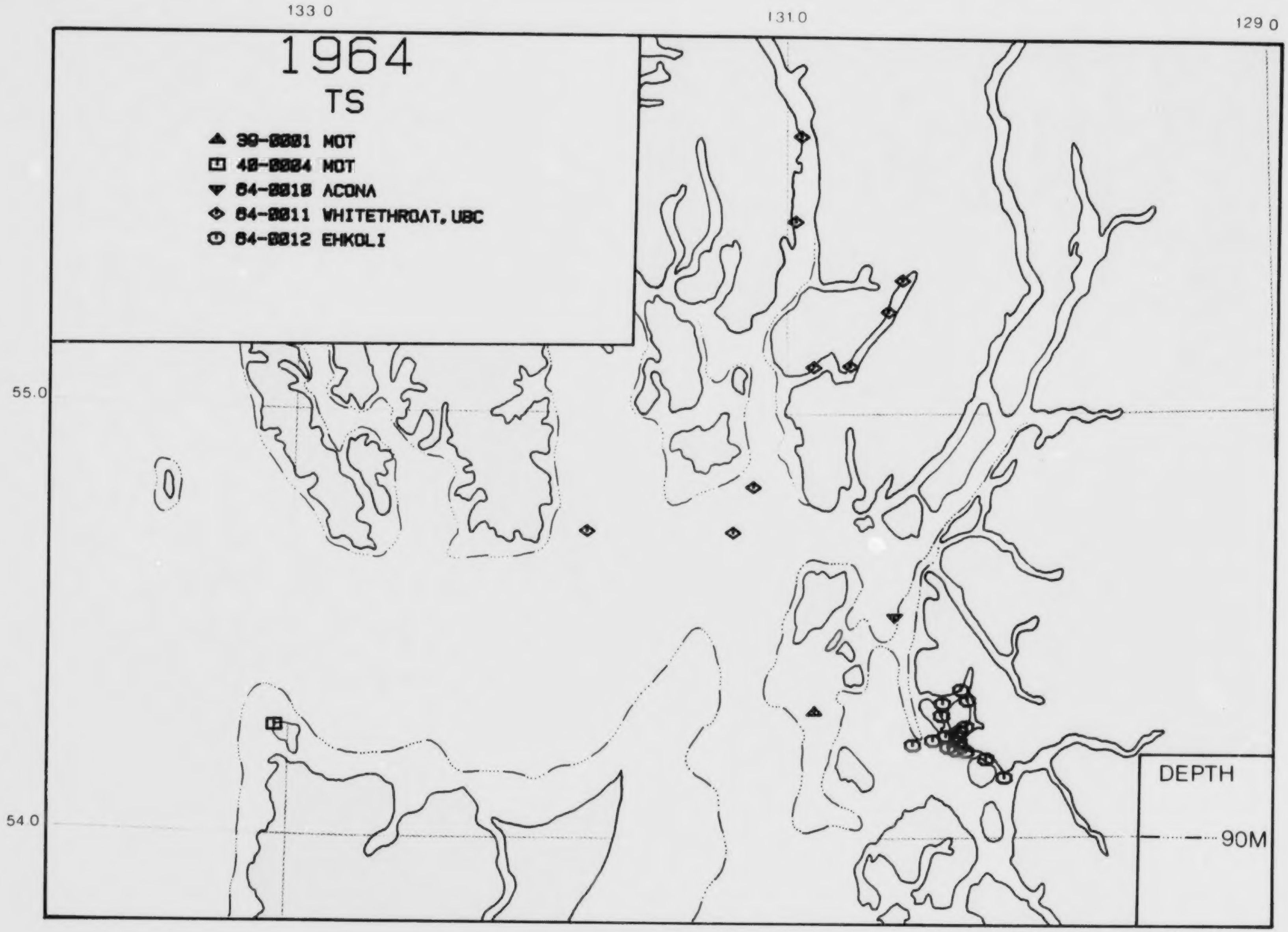
128.0
53.0
52.0
51.0
DEPTH
90M
1963
TS
▲ 34-0002 AES
⊡ 37-0000 MOT
▼ 54-0010 MOT
◈ 63-0011A WHITETHROAT
⊙ 63-0011B WHITETHROAT
⧗ 63-0010 VELELLA
INSTITUTE OF OCEAN SCIENCES.1983


132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1963
WL
✳ 06-0002 CHS
+ 61-0023 CHS
× 62-0027 CHS
◇ 63-0017 CHS
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983


132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1964
TS
▲ 34-0002 AES
⊡ 37-0009 MOT
▼ 30-0001 MOT
◇ 40-0004 MOT
○ 54-0010 MOT
⧗ 60-0010 MOT
◁ 64-0010 ACONA
↑ 64-0011 WHITETHROAT, UBC
✱ 64-0012 EHKOLI
← 64-0010 VELELLA
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983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TS
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⊡ 40-0004 MOT
▼ 64-0010 ACONA
◇ 64-0011 WHITETHROAT, UBC
⊙ 64-0012 EHKOLI
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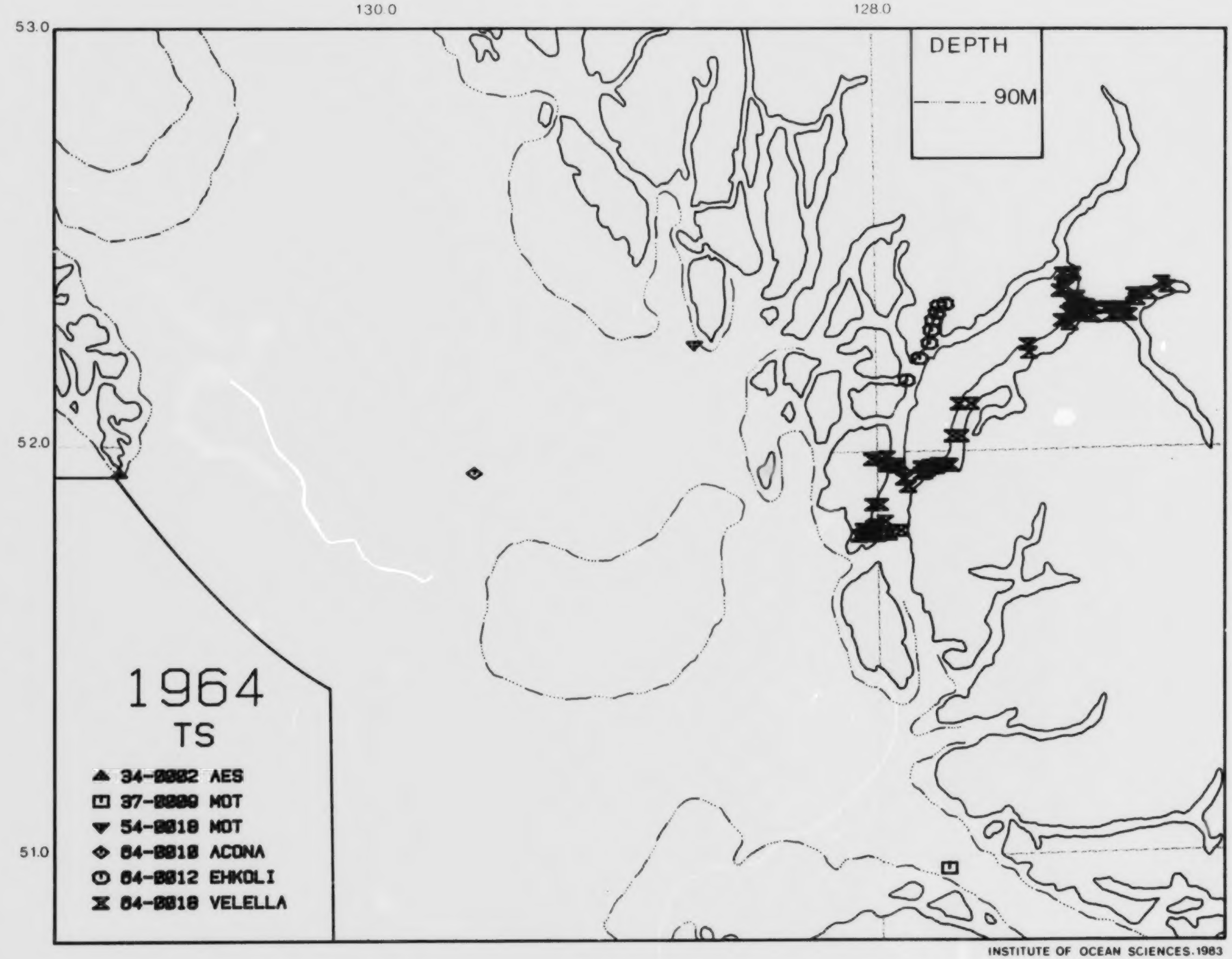
129.0
55.0
54.0
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES, 1983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53.0
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DEPTH
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1964
TS
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⊡ 37-0009 MOT
▼ 54-0018 MOT
◇ 64-0010 ACONA
⊙ 64-0012 EHKOLI
⧗ 64-0018 VELELLA

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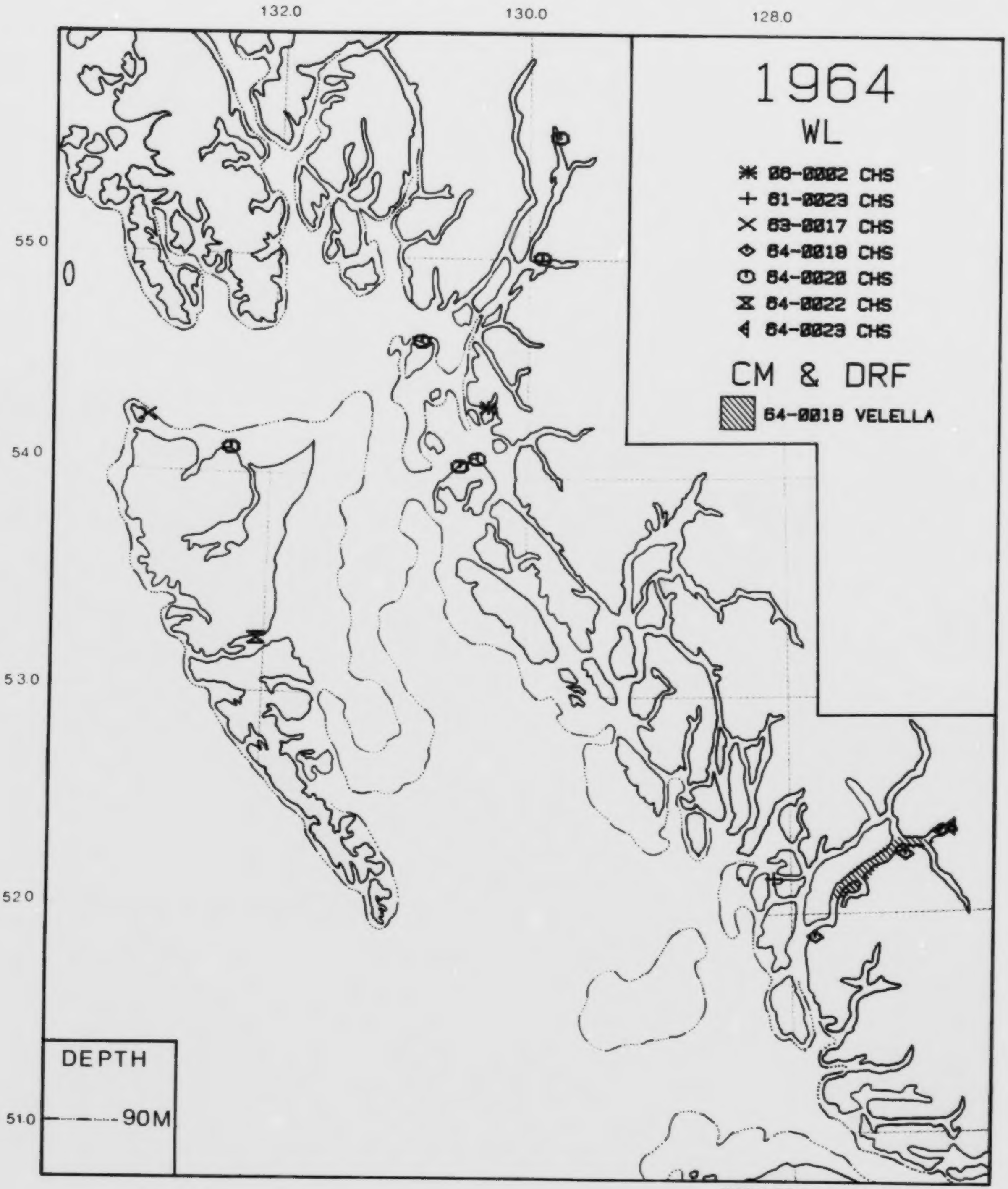
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54.0
53.0
52.0
51.0
0
1964
WL
✱ 06-0002 CHS
+ 61-0023 CHS
× 63-0017 CHS
◇ 64-0018 CHS
○ 64-0020 CHS
⧗ 64-0022 CHS
◁ 64-0023 CHS
CM & DRF
▨ 64-0018 VELELLA
DEPTH
-90M

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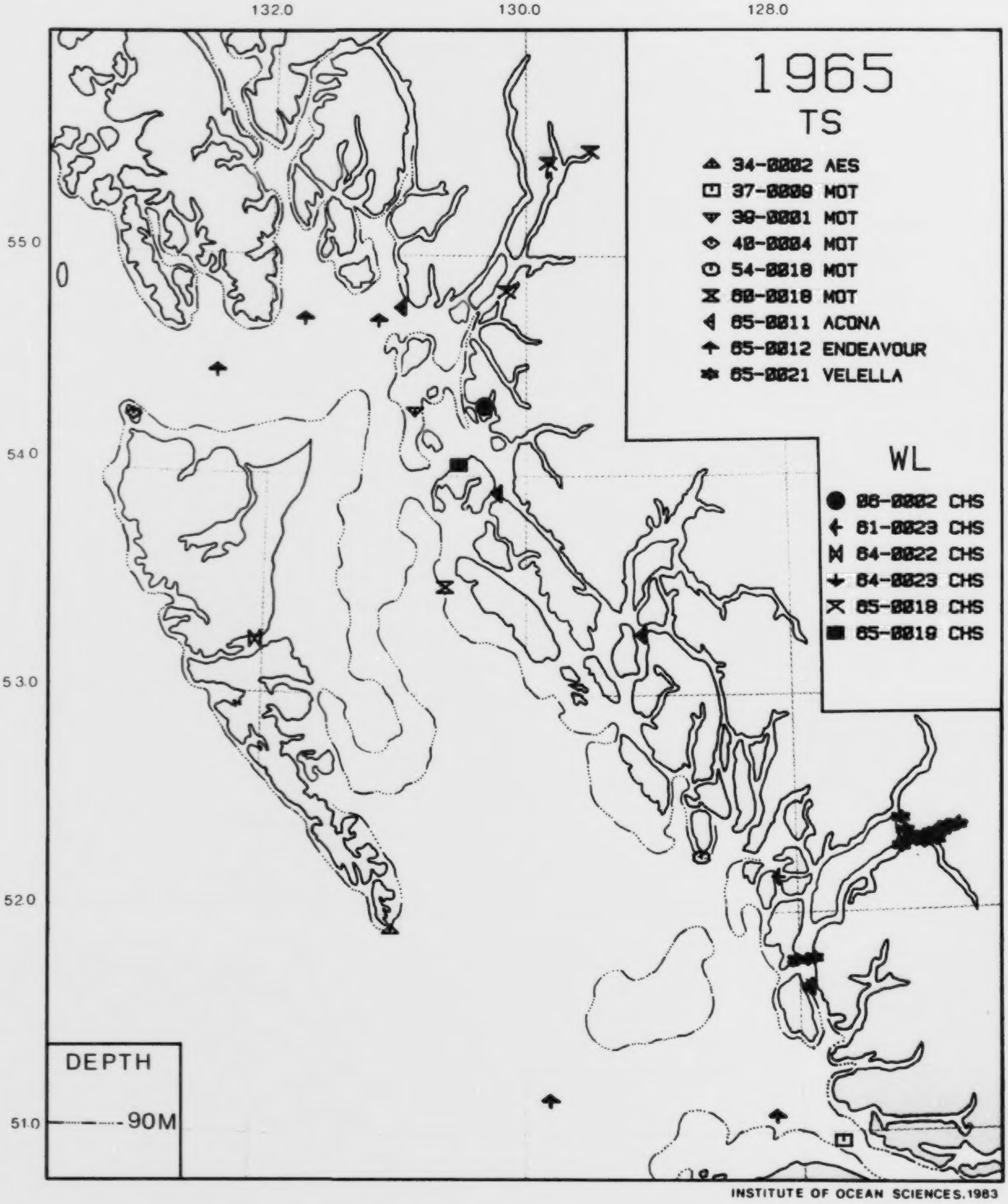
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52.0
51.0
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TS
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□ 37-0009 MOT
▼ 39-0001 MOT
◇ 40-0004 MOT
○ 54-0018 MOT
⧗ 60-0018 MOT
◀ 65-0011 ACONA
↑ 65-0012 ENDEAVOUR
✱ 65-0021 VELELLA
WL
● 06-0002 CHS
← 61-0023 CHS
⋈ 64-0022 CHS
↓ 64-0023 CHS
⧗ 65-0018 CHS
■ 65-0019 CHS
DEPTH
90M

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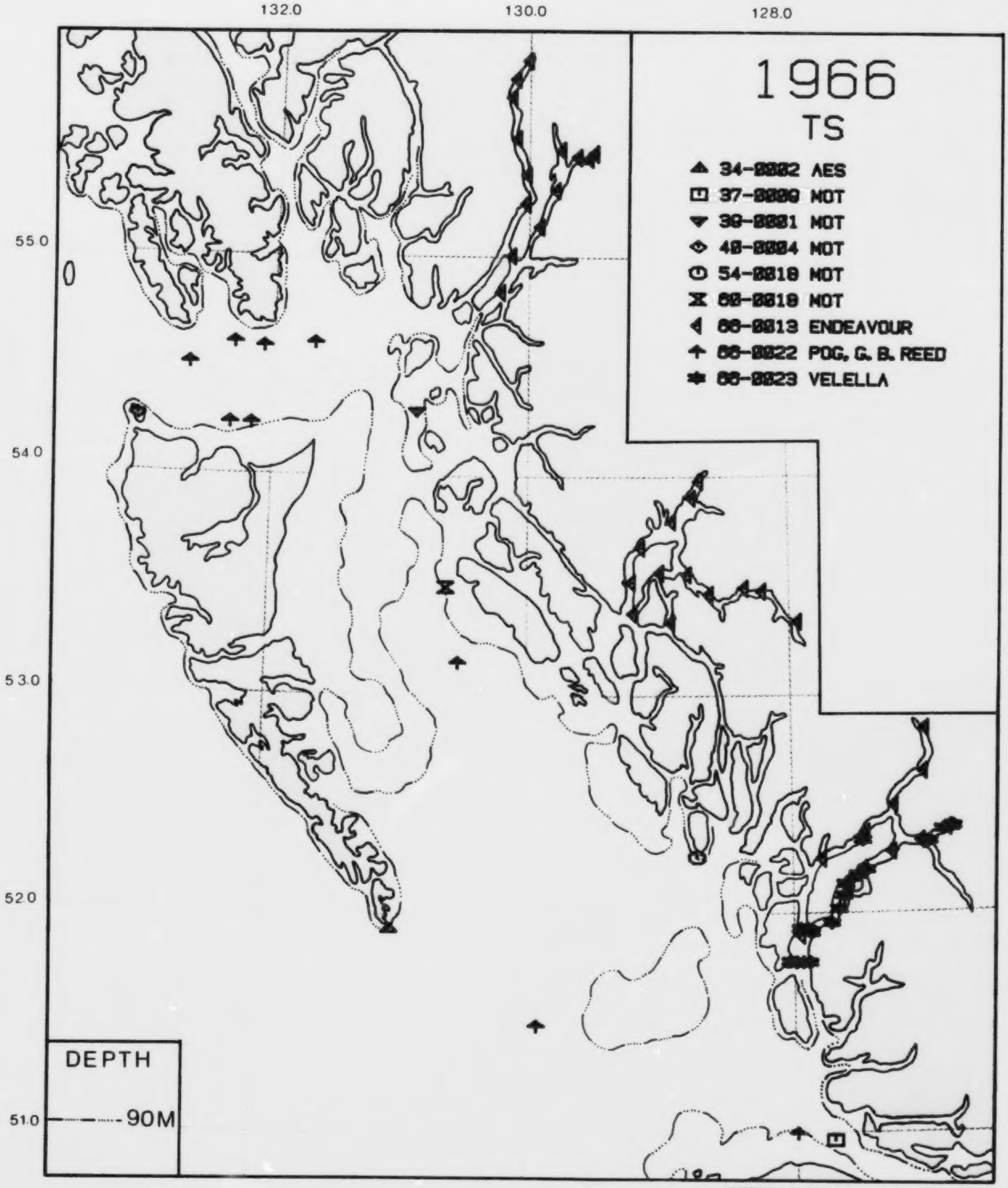
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52.0
51.0
1966
TS
▲ 34-0002 AES
⊡ 37-0000 MOT
▼ 38-0001 MOT
◇ 40-0004 MOT
⊙ 54-0018 MOT
⧗ 60-0018 MOT
◀ 66-0013 ENDEAVOUR
↑ 66-0022 POG, G. B. REED
✱ 66-0023 VELELLA
DEPTH
90M

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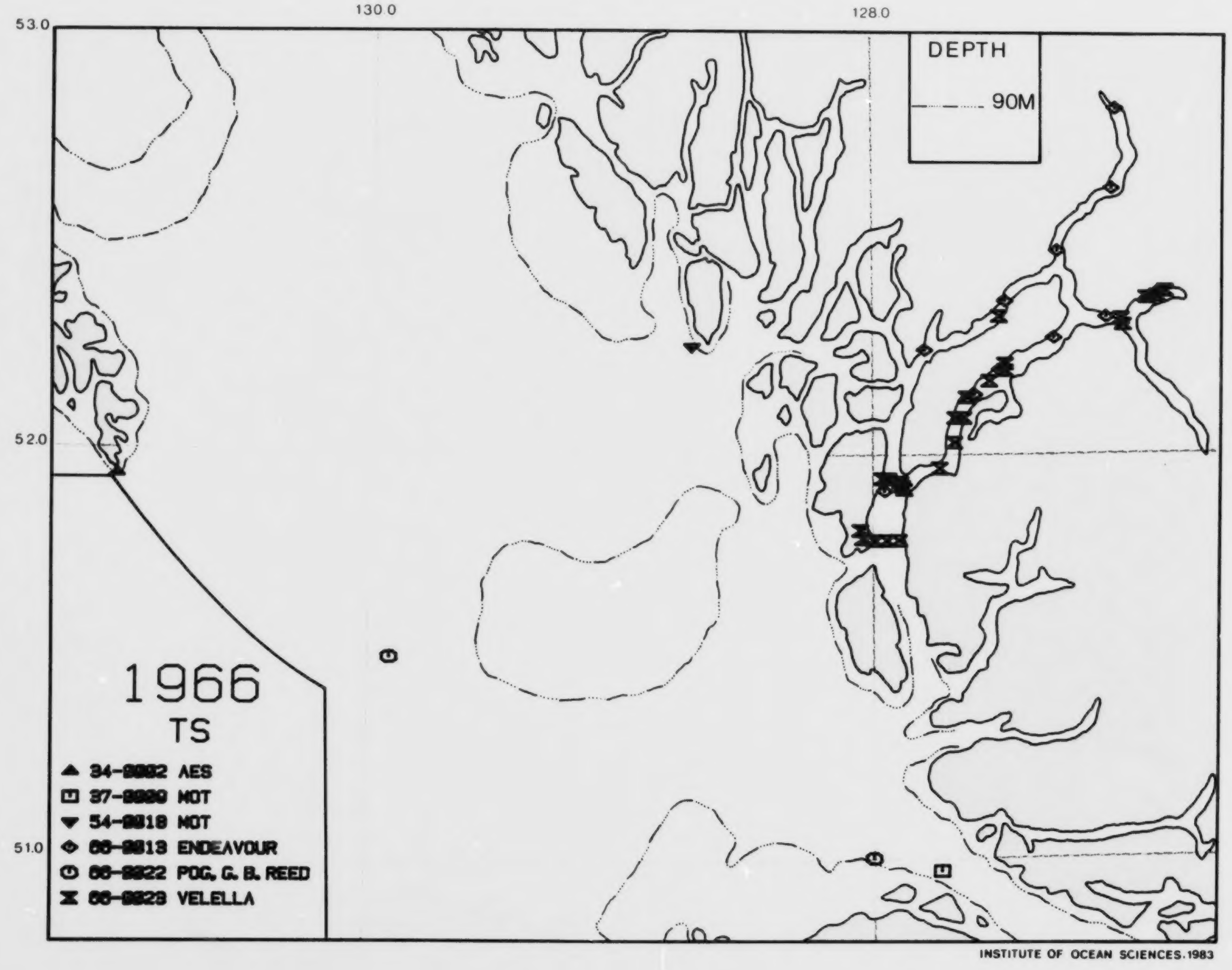
53.0
130.0
128.0
52.0
51.0
DEPTH
90M
1966
TS
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⊡ 37-0009 MOT
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◈ 66-0013 ENDEAVOUR
⊙ 66-0022 POG, G. B. REED
⧗ 66-0023 VELELLA

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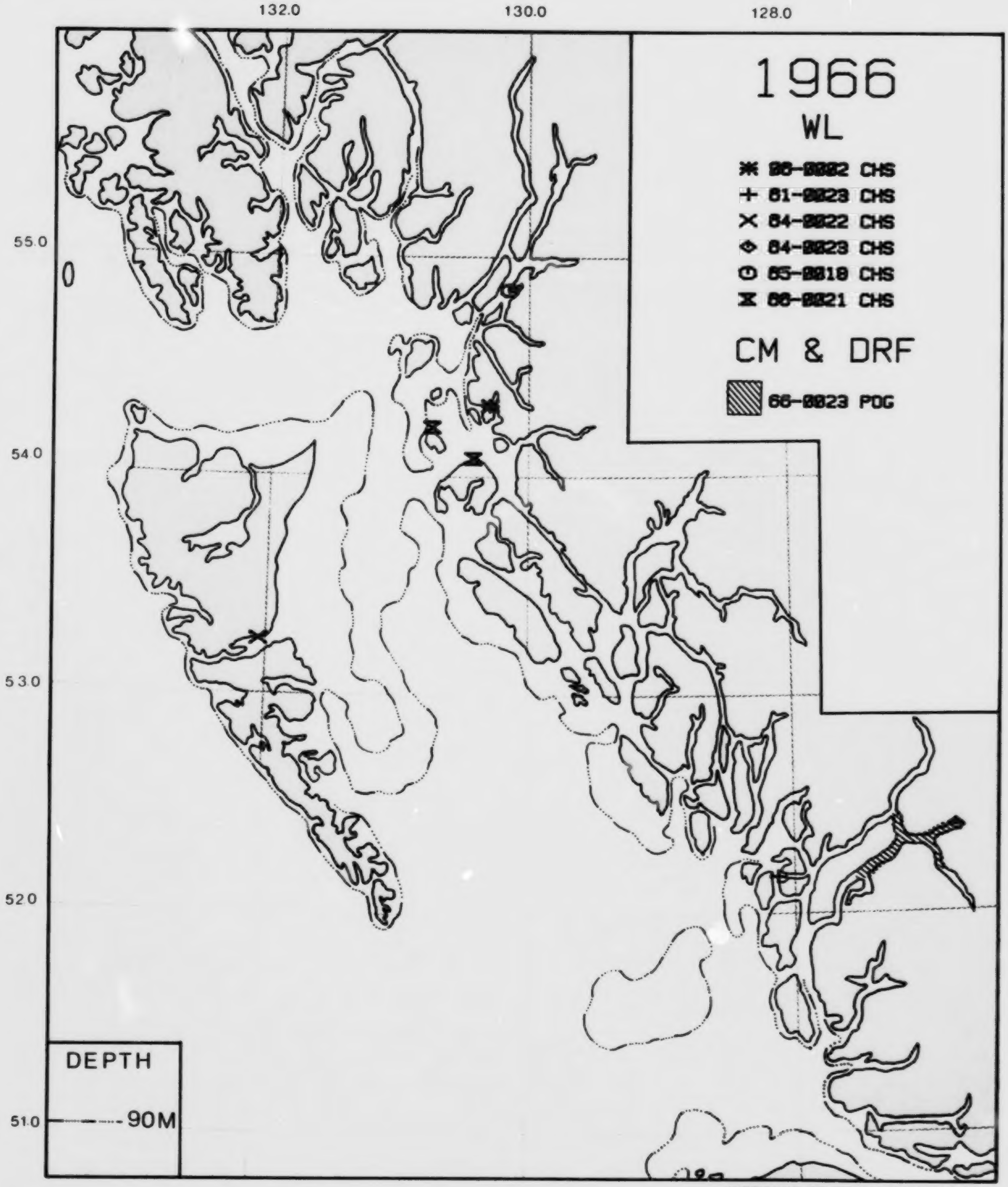
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130.0
128.0
55.0
54.0
53.0
52.0
51.0
1966
WL
✳ 60-0002 CHS
+ 61-0023 CHS
× 64-0022 CHS
◇ 64-0023 CHS
⊙ 65-0018 CHS
⧗ 66-0021 CHS
CM & DRF
▨ 66-0023 POG
DEPTH
90M

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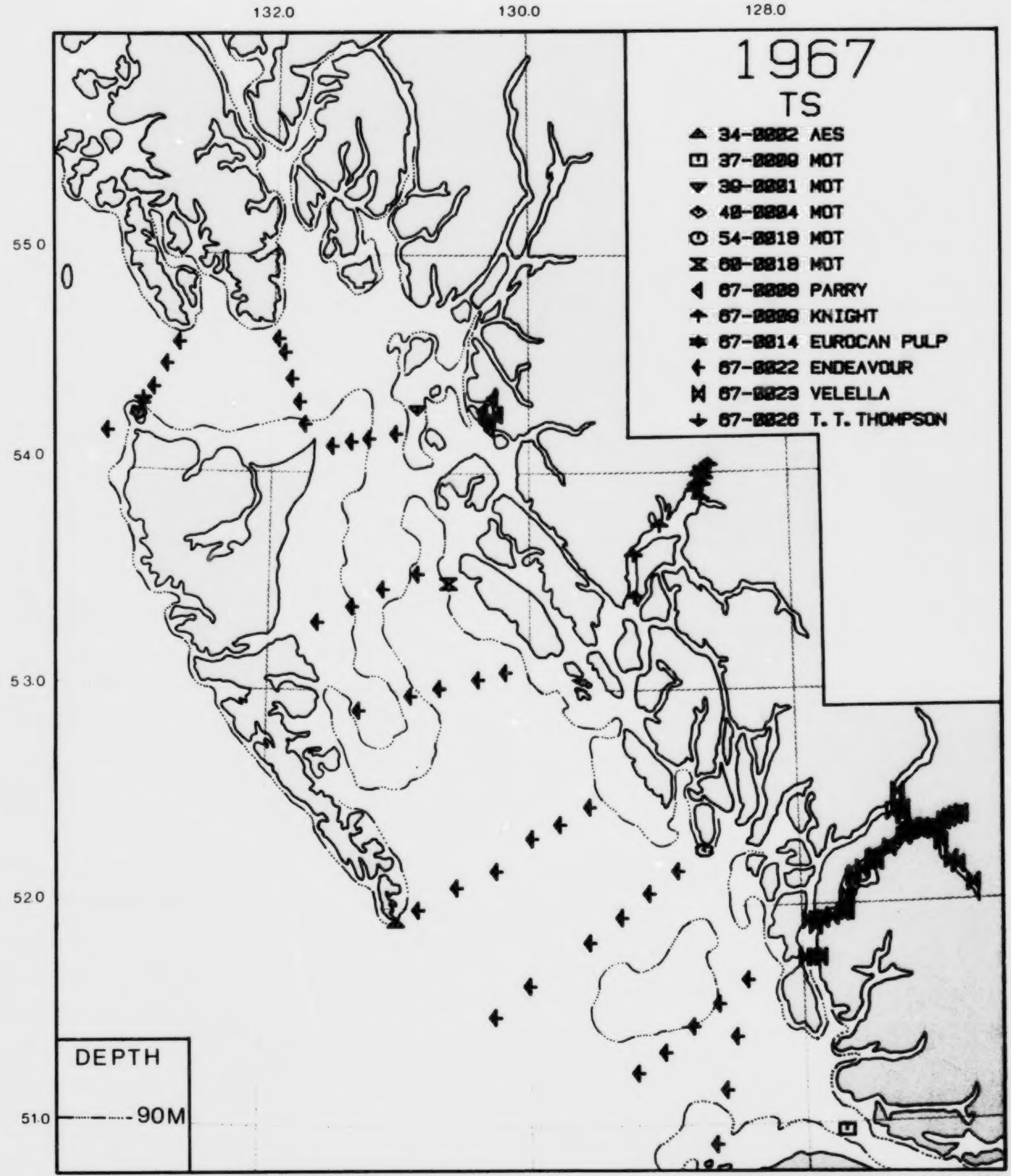
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128.0
55.0
54.0
53.0
52.0
51.0
1967
TS
▲ 34-0002 AES
□ 37-0009 MOT
▼ 39-0001 MOT
◇ 40-0004 MOT
○ 54-0018 MOT
⧗ 60-0018 MOT
◀ 67-0008 PARRY
↑ 67-0009 KNIGHT
✱ 67-0014 EUROCAN PULP
← 67-0022 ENDEAVOUR
⋈ 67-0023 VELELLA
↓ 67-0026 T. T. THOMPSON
DEPTH
90M

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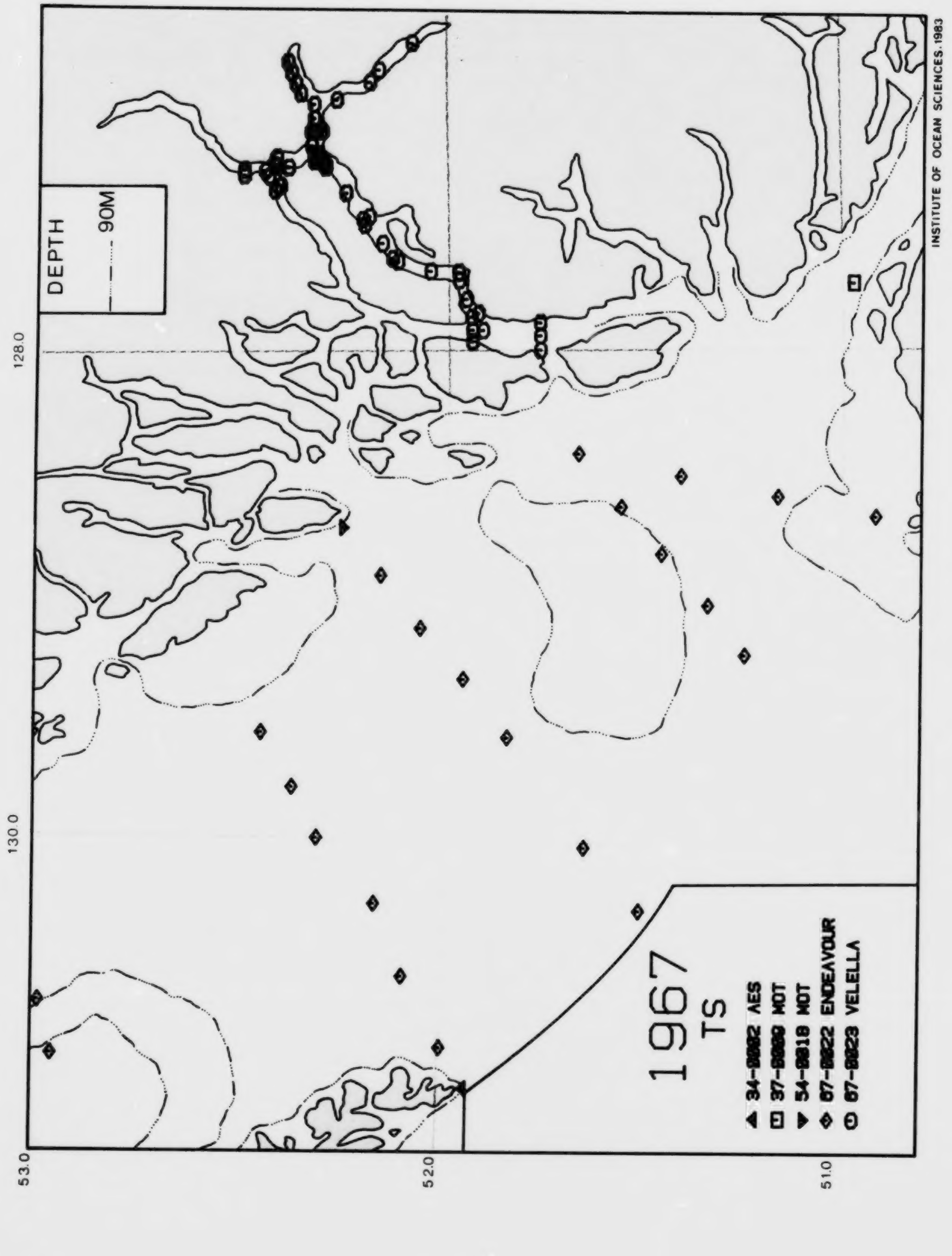
1967
TS
▲ 34-0002 AES
⊡ 37-0008 MOT
▼ 54-0018 MOT
◈ 67-0022 ENDEAVOUR
ʘ 67-0023 VELELLA
DEPTH
90M
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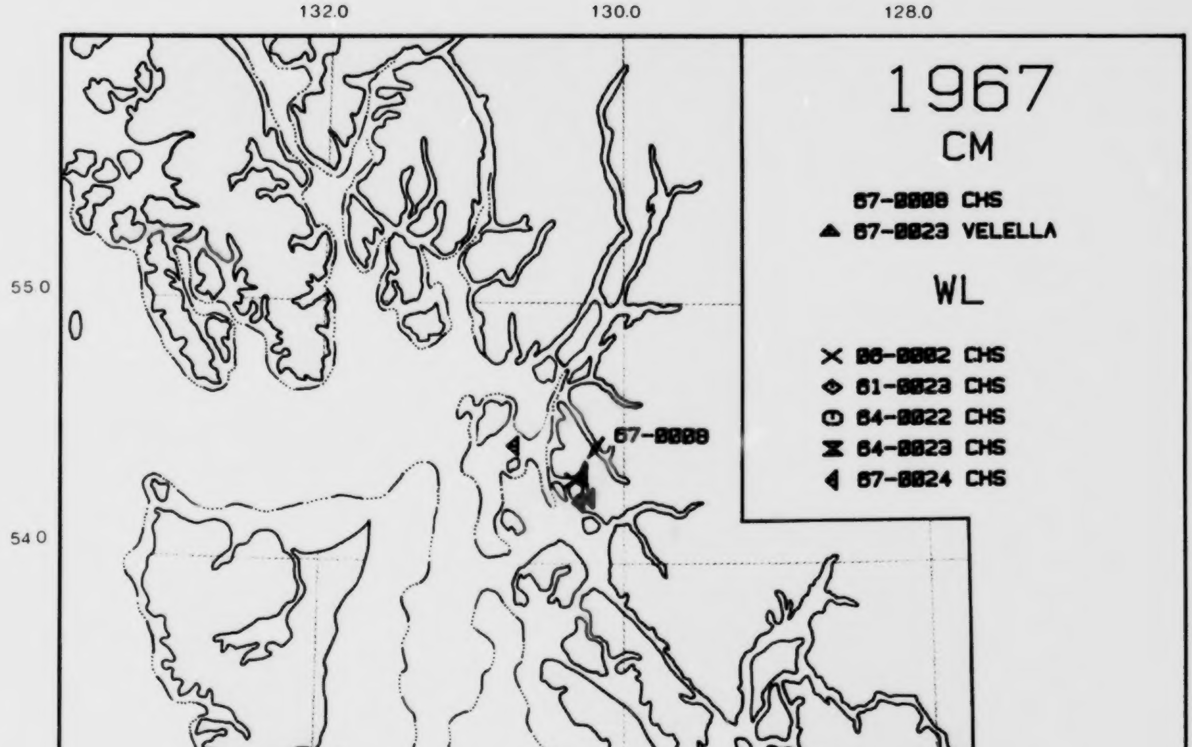
52.0
51.0
130.0
128.0
INSTITUTE OF OCEAN SCIENCES. 1983


132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1967
CM
67-0008 CHS
▲ 67-0023 VELELLA
WL
× 06-0002 CHS
◈ 61-0023 CHS
⊙ 64-0022 CHS
⧗ 64-0023 CHS
◀ 67-0024 CHS
67-0008
DEPTH
90M

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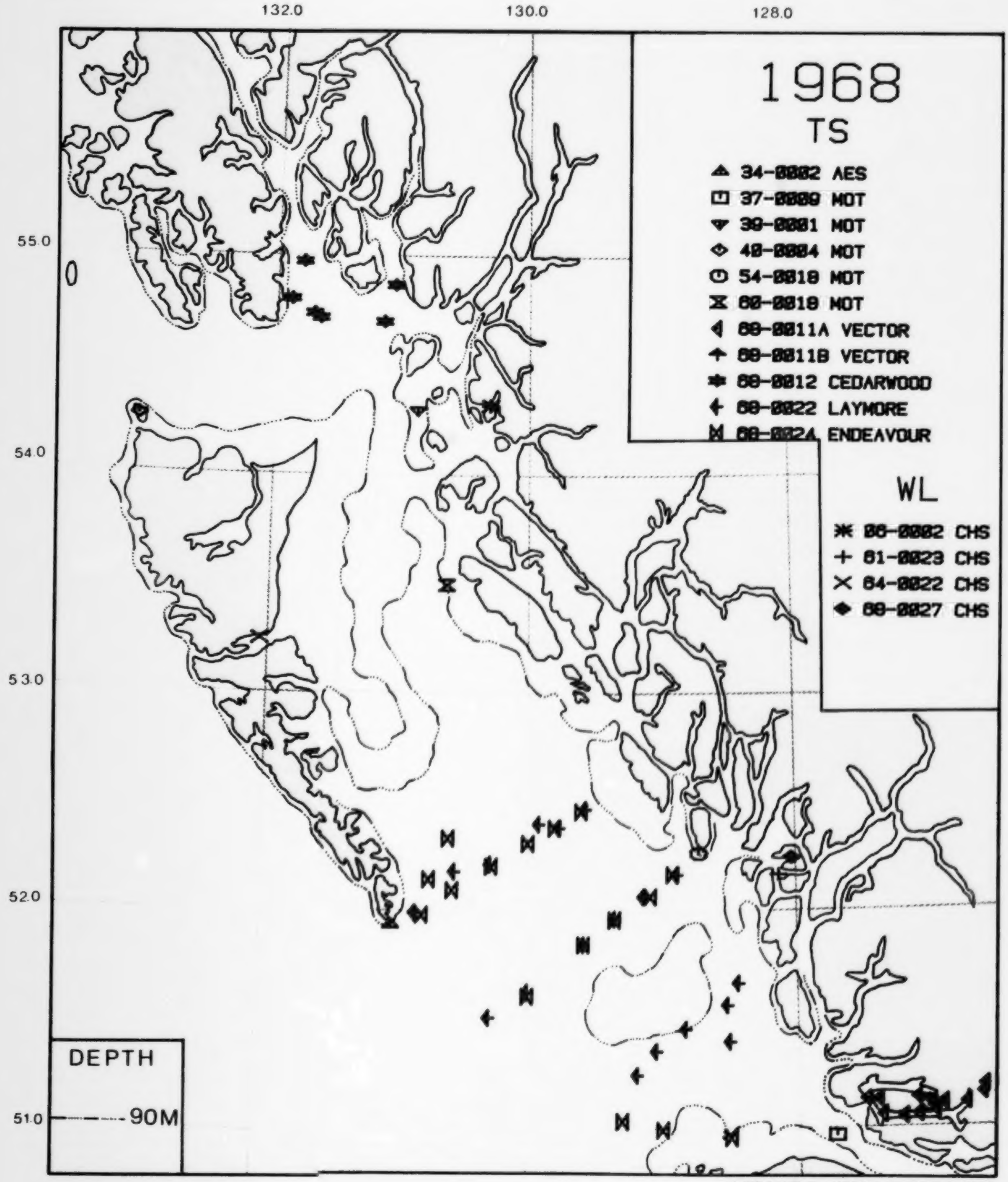
132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1968
TS
34-0002 AES
37-0009 MOT
38-0001 MOT
40-0004 MOT
54-0018 MOT
60-0018 MOT
68-0011A VECTOR
68-0011B VECTOR
68-0012 CEDARWOOD
68-0022 LAYMORE
68-0024 ENDEAVOUR
WL
08-0002 CHS
61-0023 CHS
64-0022 CHS
68-0027 CHS
DEPTH
90M

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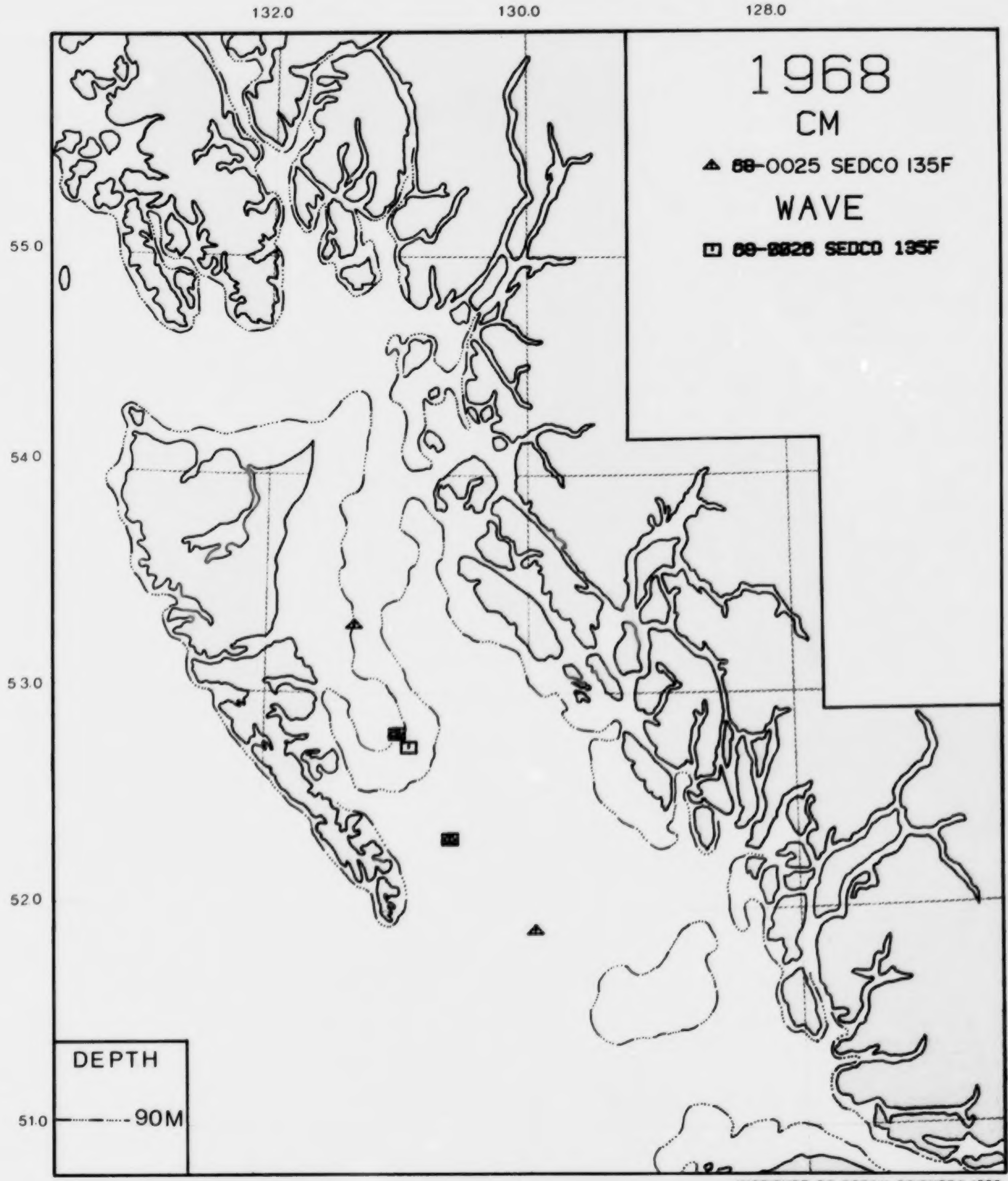
132.0
130.0
128.0
55.0
54.0
53.0
52.0
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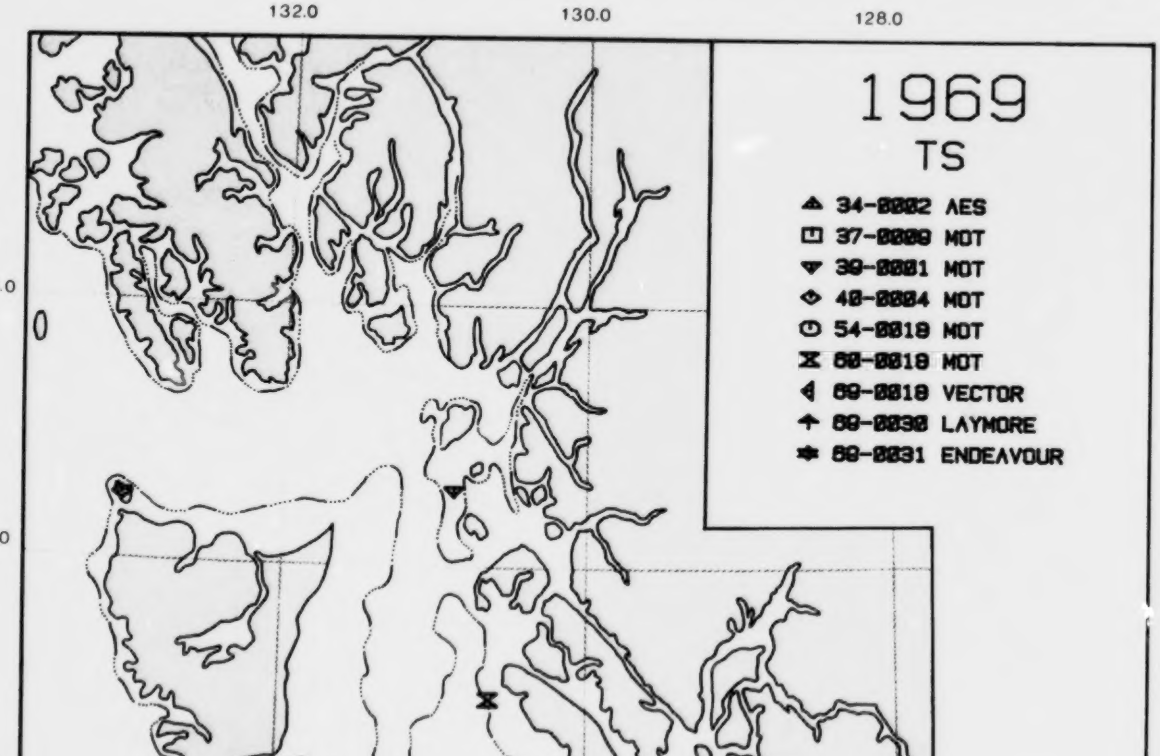
1968
CM
▲ 68-0025 SEDCO 135F
WAVE
□ 68-0026 SEDCO 135F
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983


132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1969
TS
▲ 34-0002 AES
⊔ 37-0008 MOT
▼ 39-0001 MOT
◇ 40-0004 MOT
◯ 54-0018 MOT
⧗ 60-0018 MOT
◀ 69-0018 VECTOR
✝ 69-0030 LAYMORE
✱ 69-0031 ENDEAVOUR
DEPTH
90M

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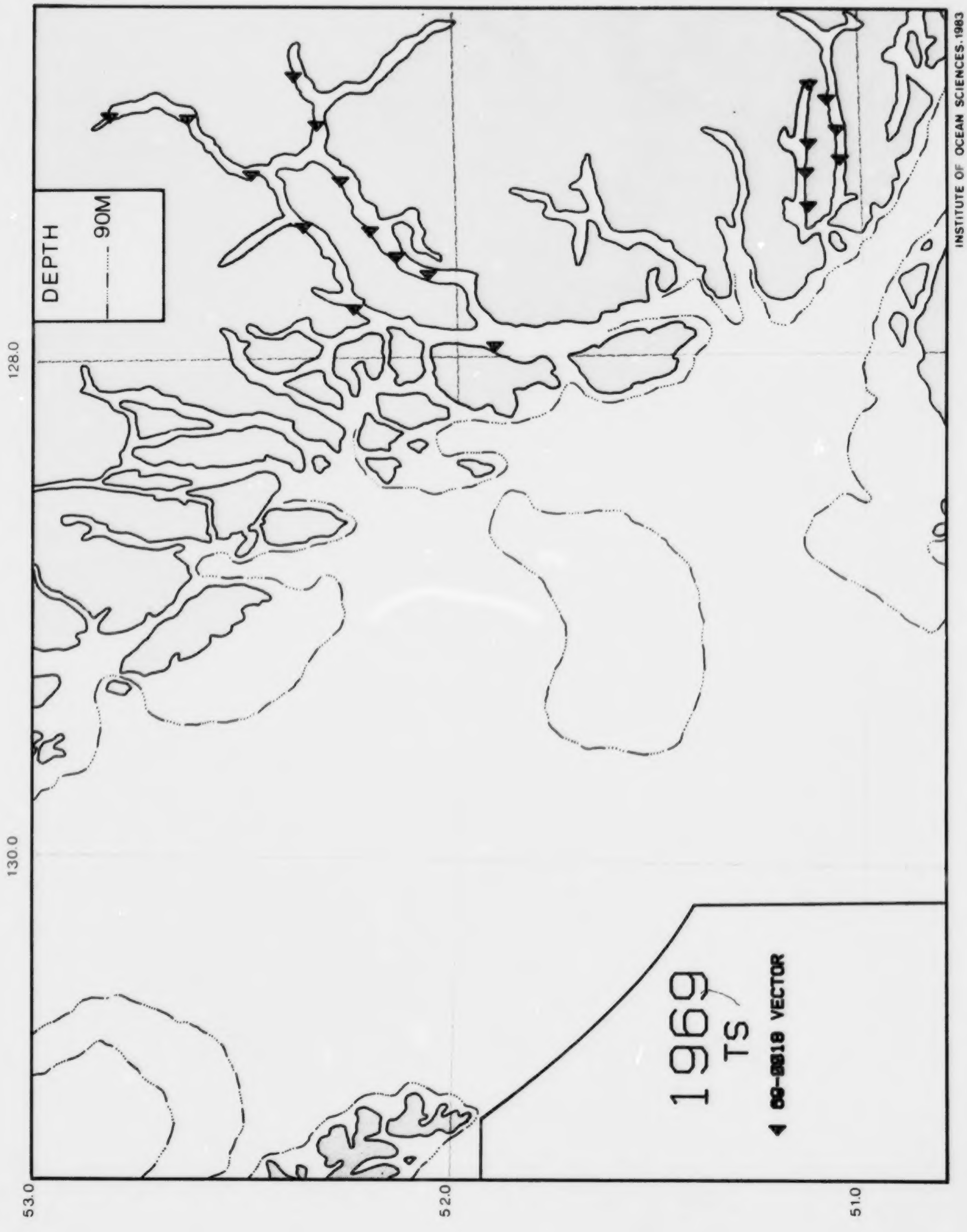
DEPTH
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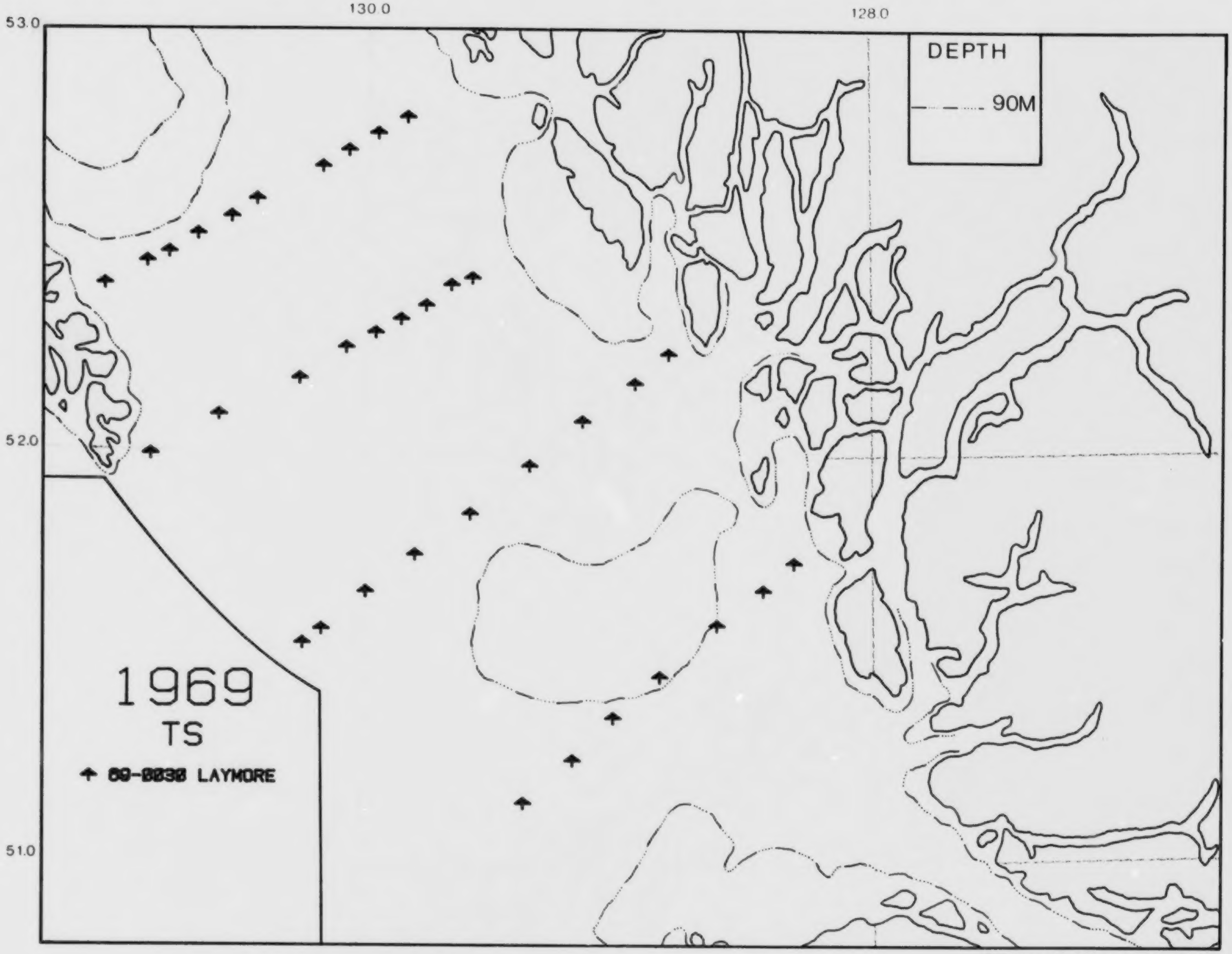
128.0
130.0
53.0
52.0
51.0
1969
TS
◄ 60-8818 VECTOR
INSTITUTE OF OCEAN SCIENCES.1983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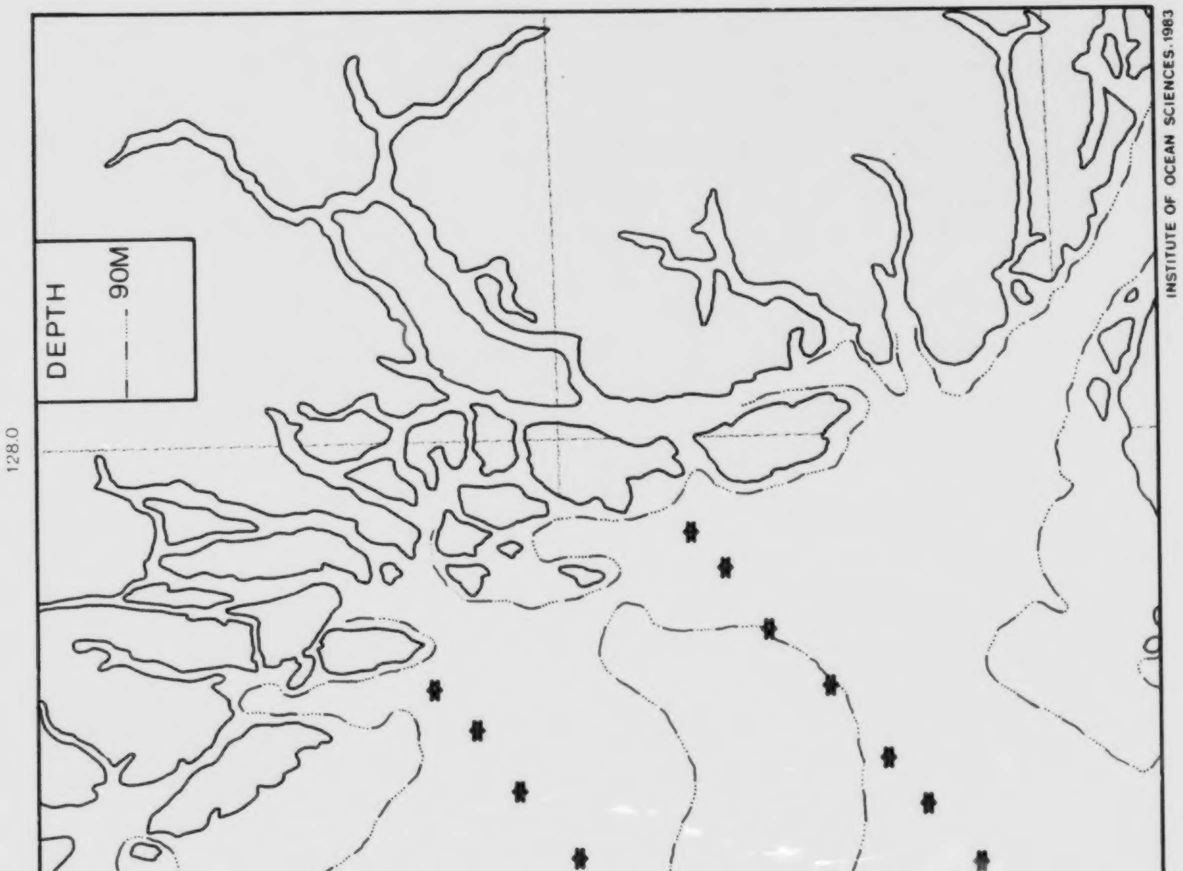
DEPTH
90M
1969
TS
69-0030 LAYMORE
INSTITUTE OF OCEAN SCIENCES.1983


DEPTH
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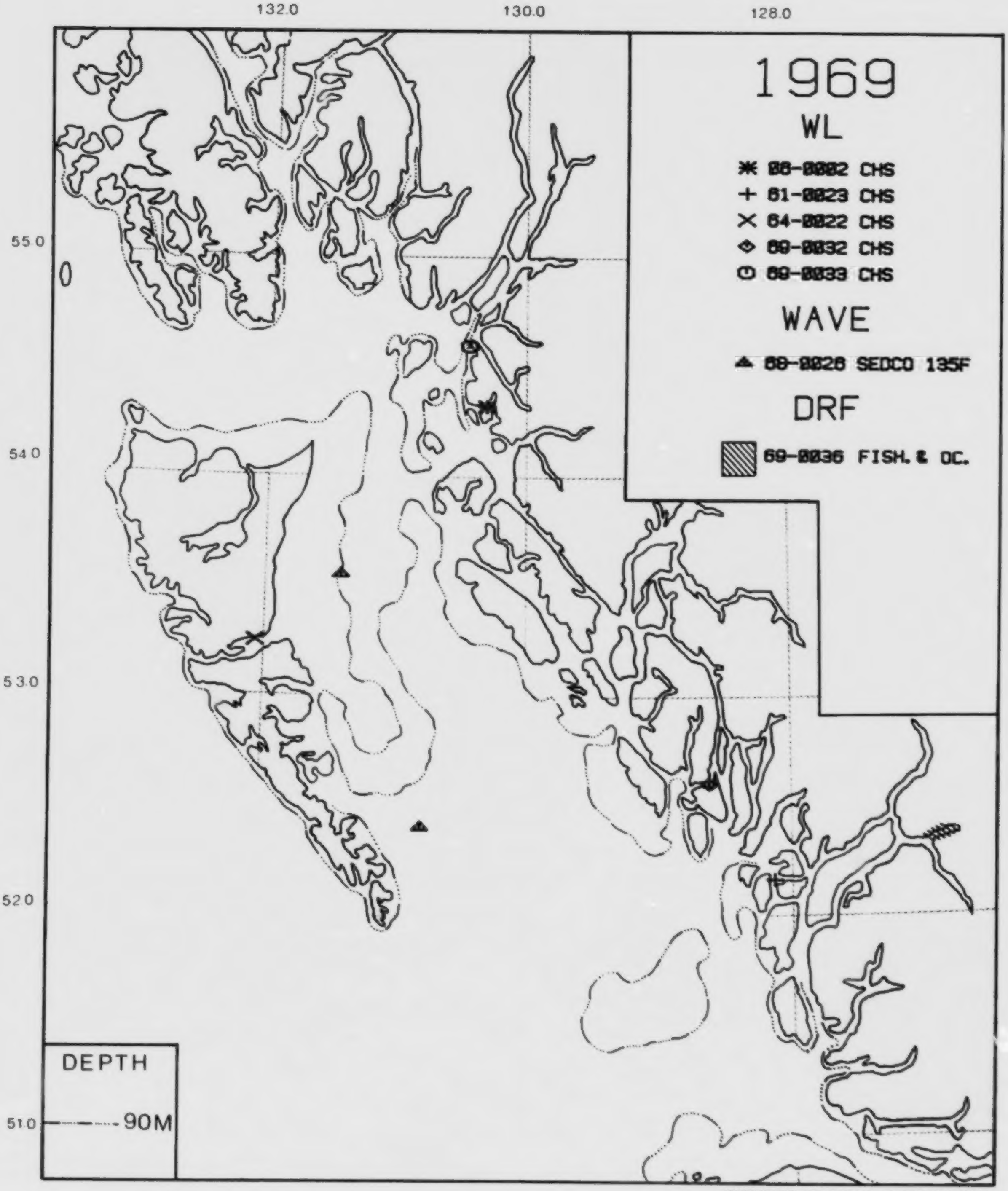
1969
TS
✱ 69-0031 ENDEAVOUR
INSTITUTE OF OCEAN SCIENCES.1983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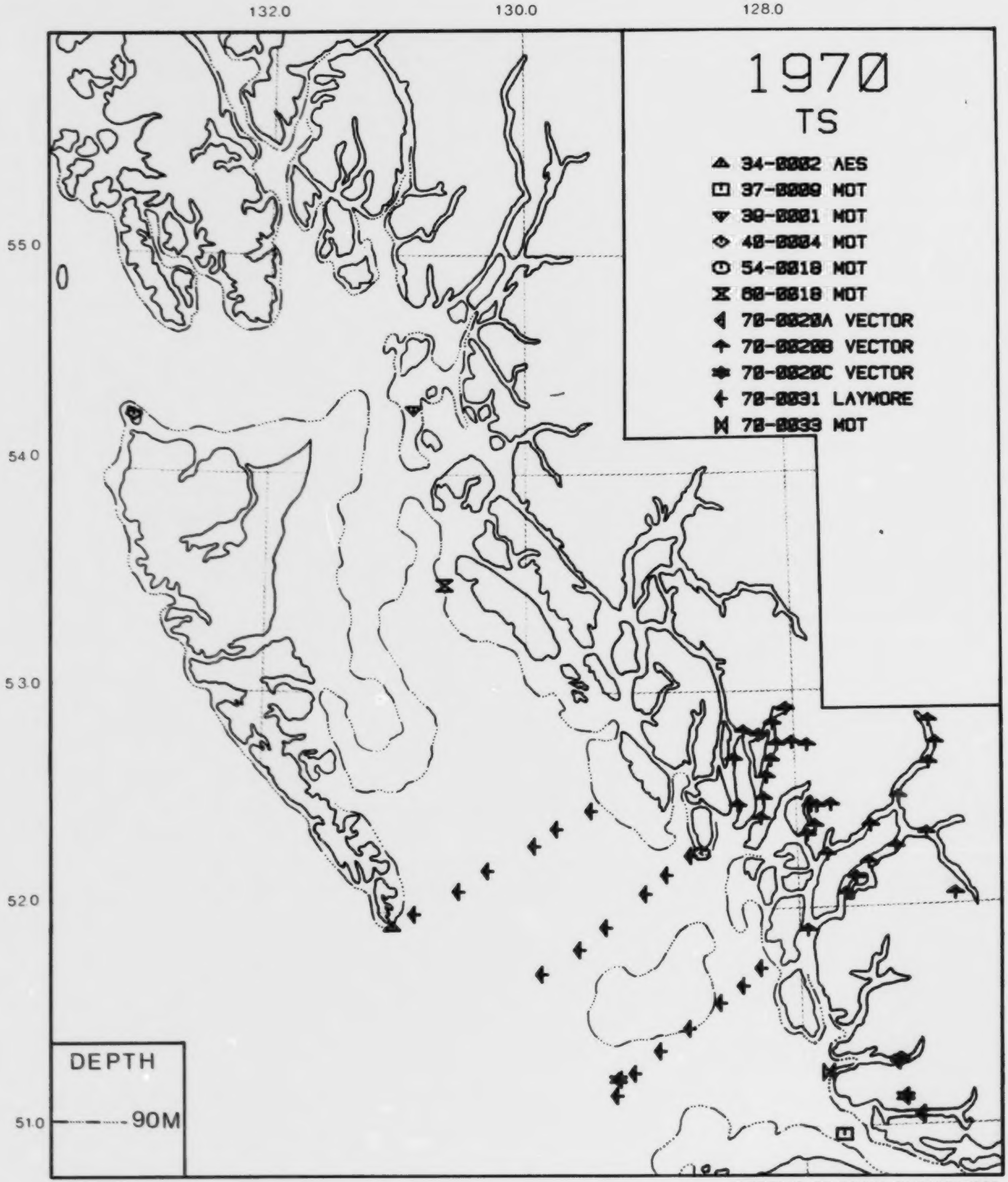
52.0
51.0
1969
WL
✱ 08-0002 CHS
+ 61-0023 CHS
× 64-0022 CHS
◇ 69-0032 CHS
○ 69-0033 CHS
WAVE
▲ 69-0026 SEDCO 135F
DRF
▨ 69-0036 FISH. & OC.
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES, 1983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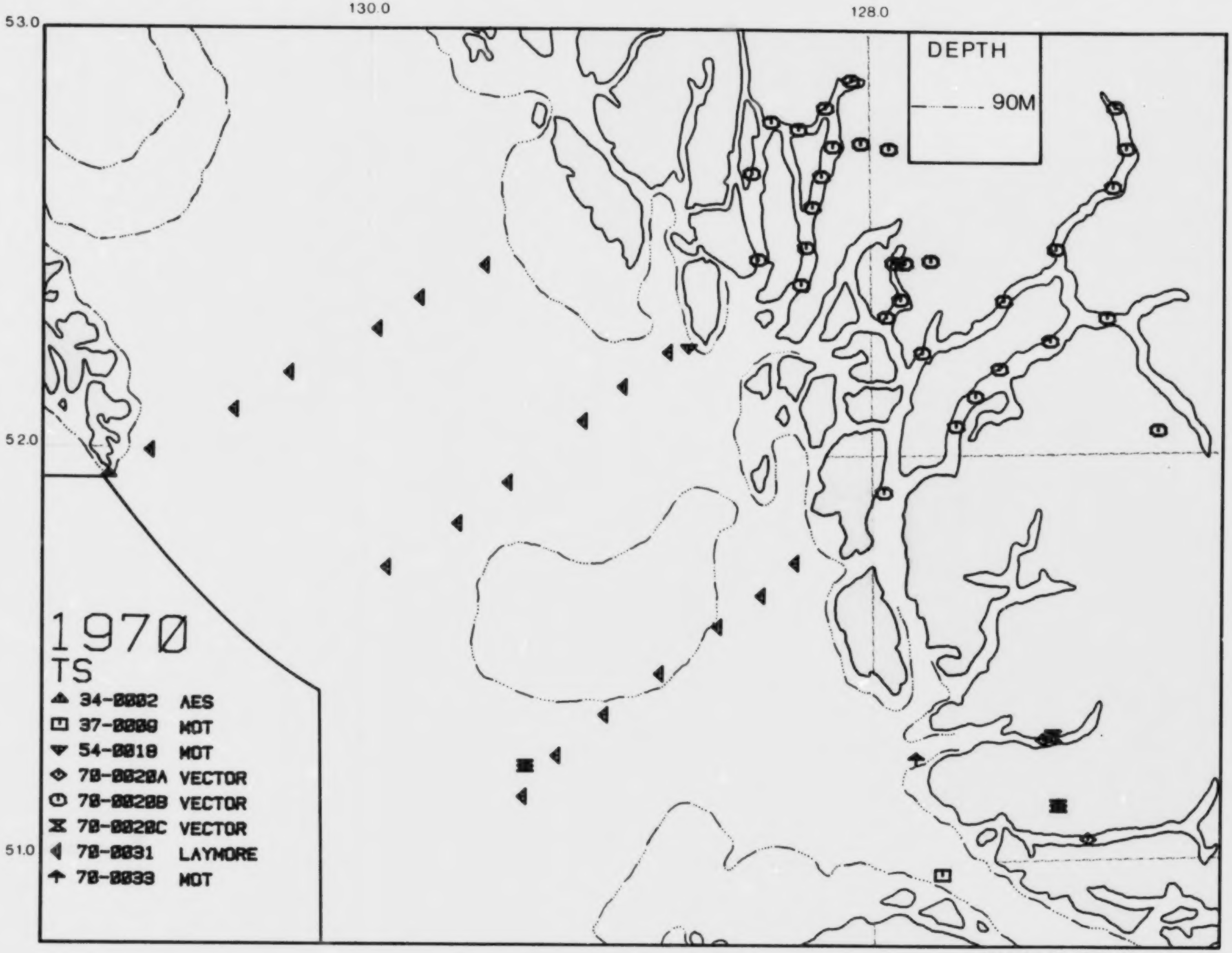
52.0
51.0
1970
TS
34-0002 AES
37-0009 MOT
38-0001 MOT
40-0004 MOT
54-0018 MOT
60-0018 MOT
70-0020A VECTOR
70-0020B VECTOR
70-0020C VECTOR
70-0031 LAYMORE
70-0033 MOT
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983


53.0
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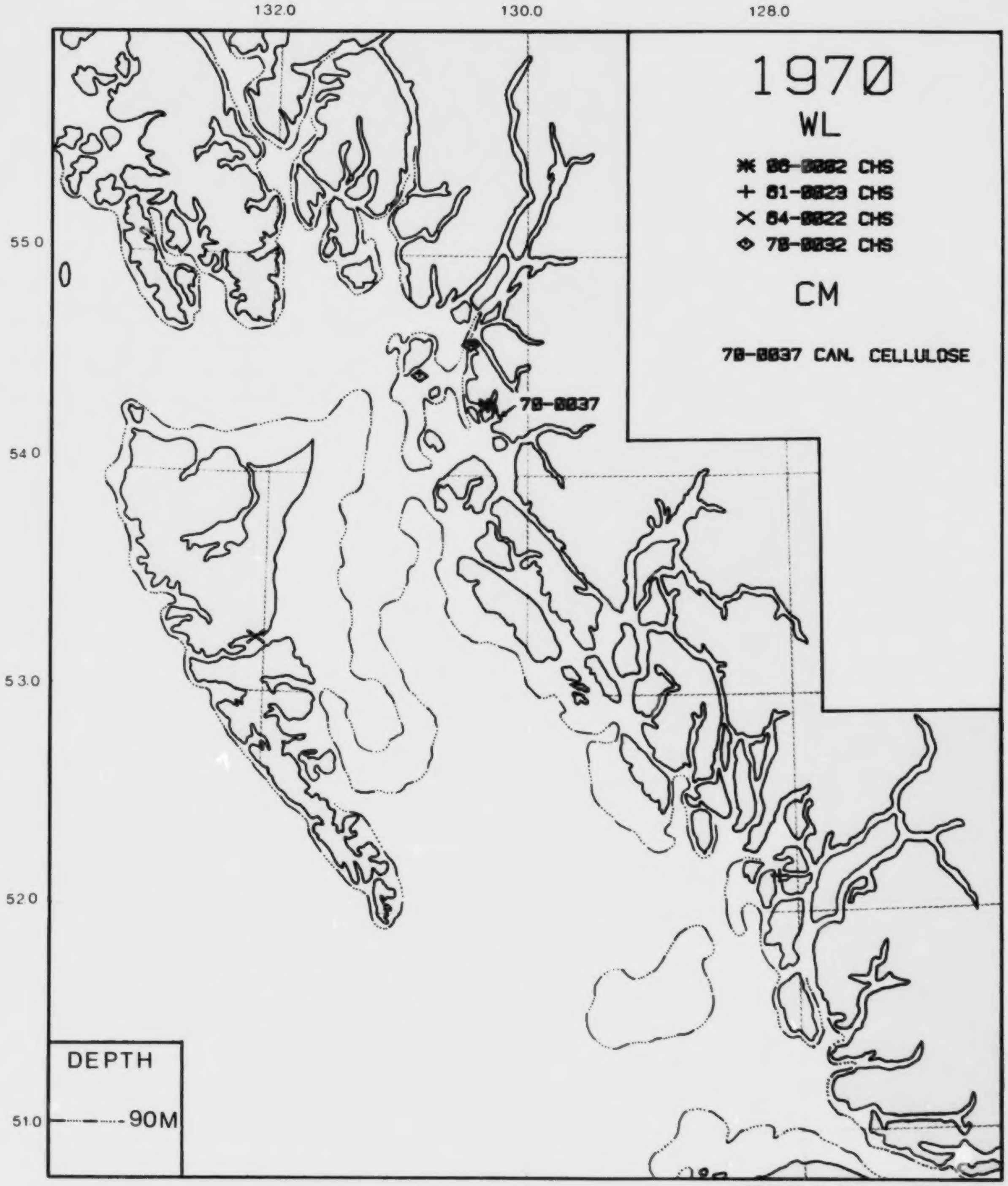
51.0
DEPTH
90M
1970
TS
▲ 34-0002 AES
☐ 37-0000 MOT
▼ 54-0018 MOT
◇ 70-0020A VECTOR
ʘ 70-0020B VECTOR
⧗ 70-0020C VECTOR
◀ 70-0031 LAYMORE
↑ 70-0033 MOT

INSTITUTE OF OCEAN SCIENCES.1983


132.0
130.0
128.0
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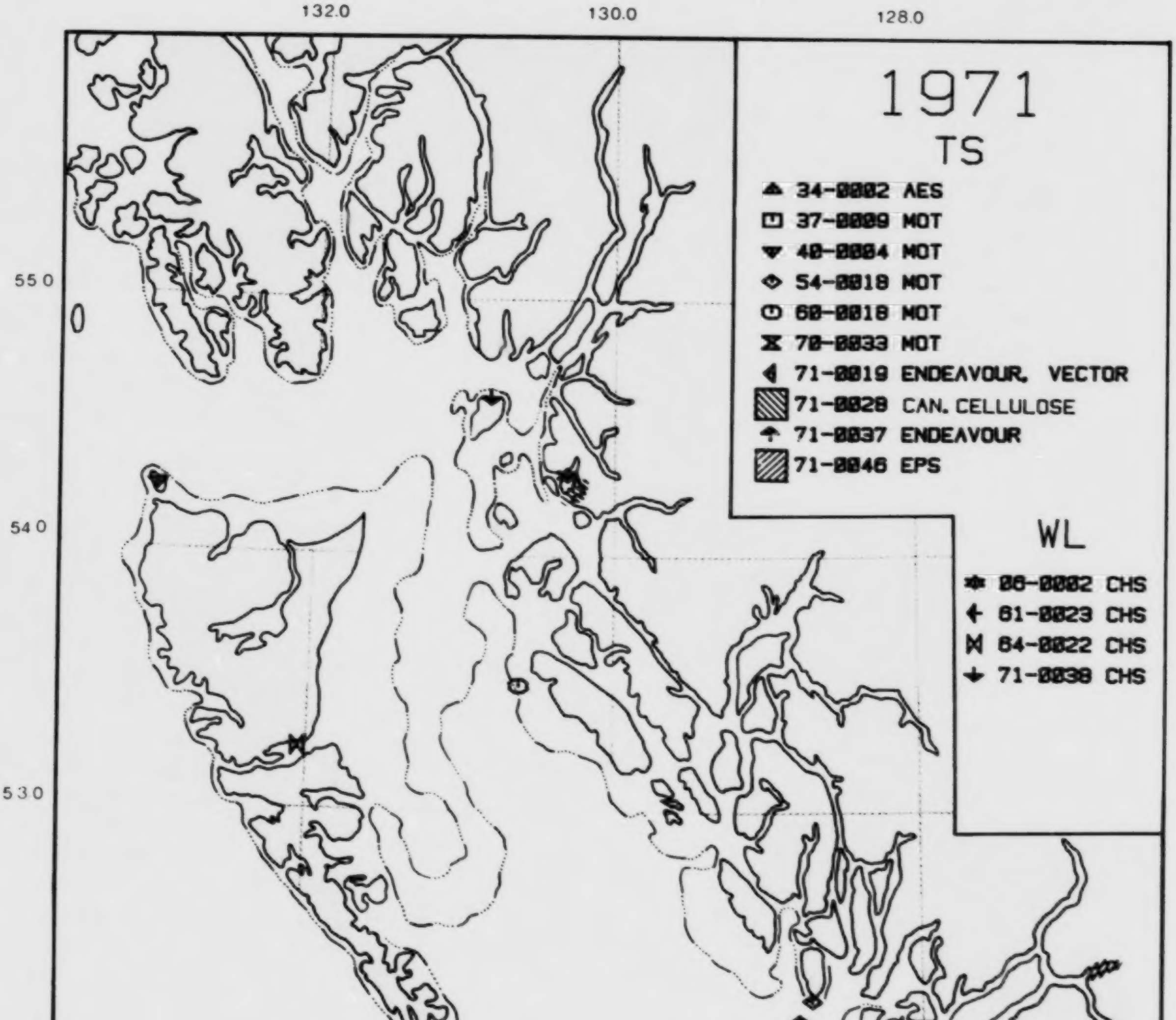
52.0
51.0
1970
WL
✱ 06-0002 CHS
+ 61-0023 CHS
× 64-0022 CHS
◇ 70-0032 CHS
CM
70-0037 CAN. CELLULOSE
70-0037
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES, 1983


132.0
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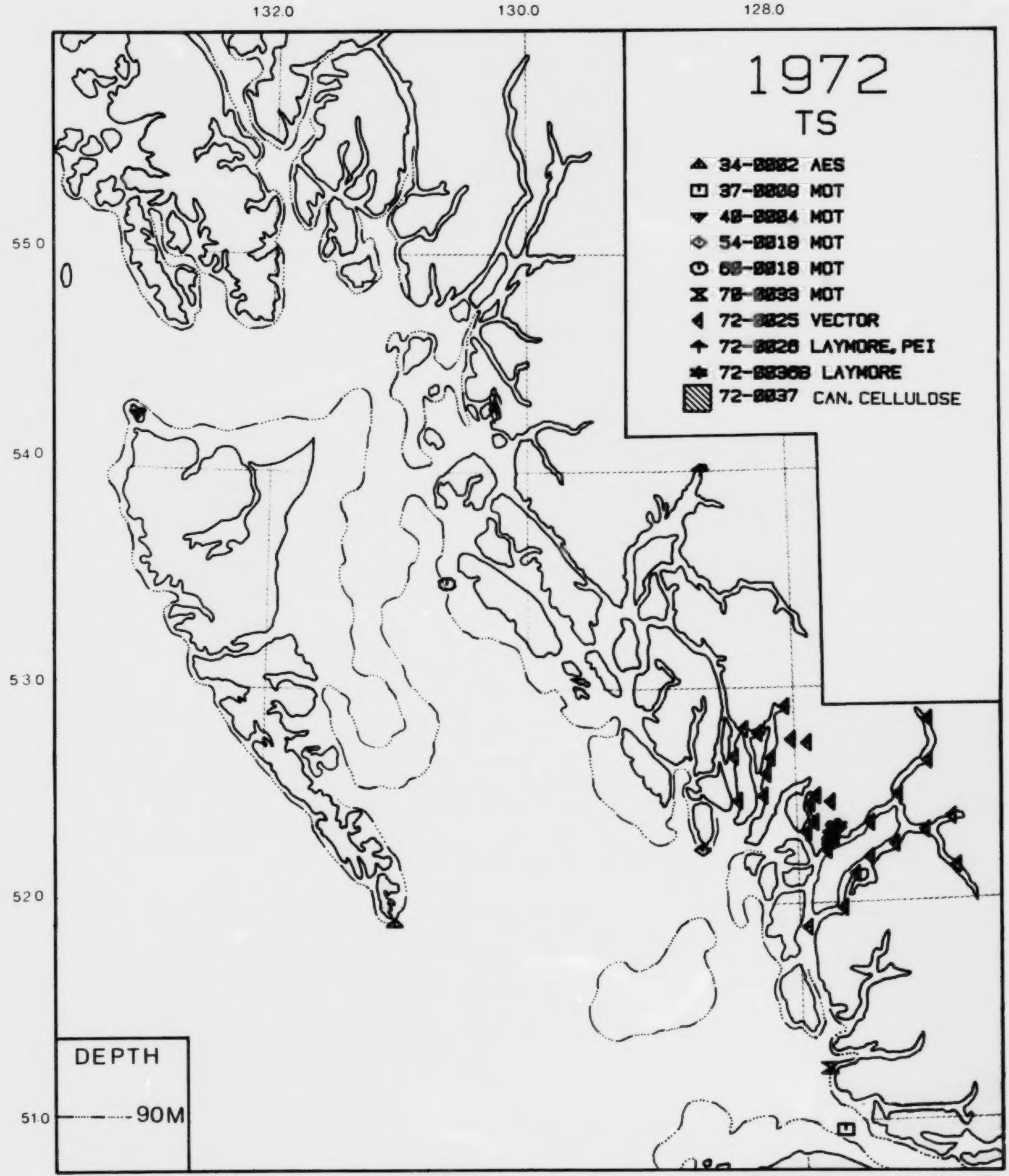
55.0
54.0
53.0
52.0
51.0
1971
TS
▲ 34-0002 AES
□ 37-0009 MOT
▼ 40-0004 MOT
◇ 54-0018 MOT
○ 60-0018 MOT
⧗ 70-0033 MOT
◀ 71-0019 ENDEAVOUR, VECTOR
▨ 71-0028 CAN. CELLULOSE
↑ 71-0037 ENDEAVOUR
▨ 71-0046 EPS
WL
✱ 08-0002 CHS
← 61-0023 CHS
⋈ 64-0022 CHS
↓ 71-0038 CHS
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983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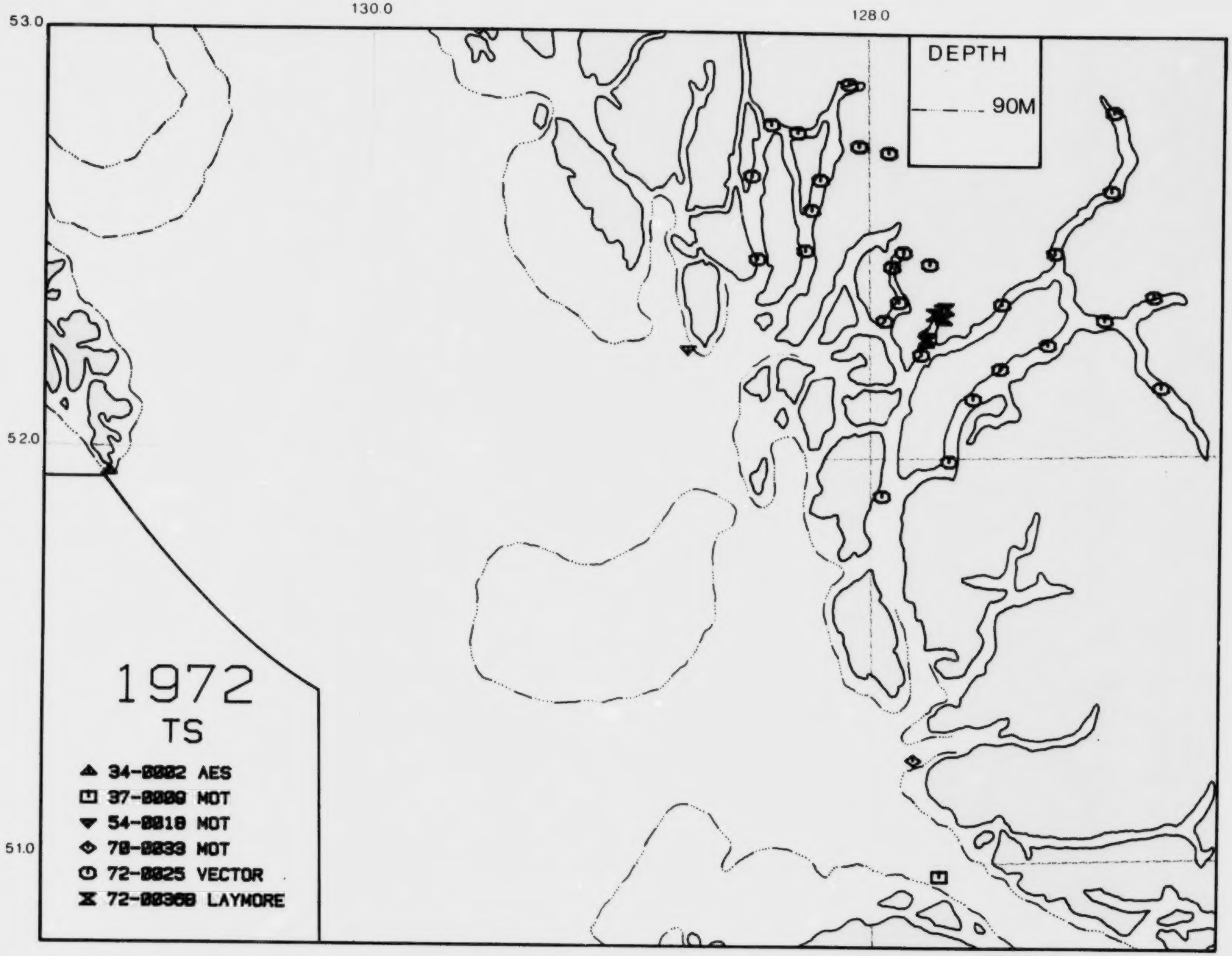
55.0
54.0
53.0
52.0
51.0
1972
TS
▲ 34-0002 AES
□ 37-0009 MOT
▼ 40-0004 MOT
◈ 54-0018 MOT
○ 60-0018 MOT
⧗ 70-0033 MOT
◀ 72-0025 VECTOR
↑ 72-0028 LAYMORE, PEI
✱ 72-0030B LAYMORE
▨ 72-0037 CAN. CELLULOSE
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983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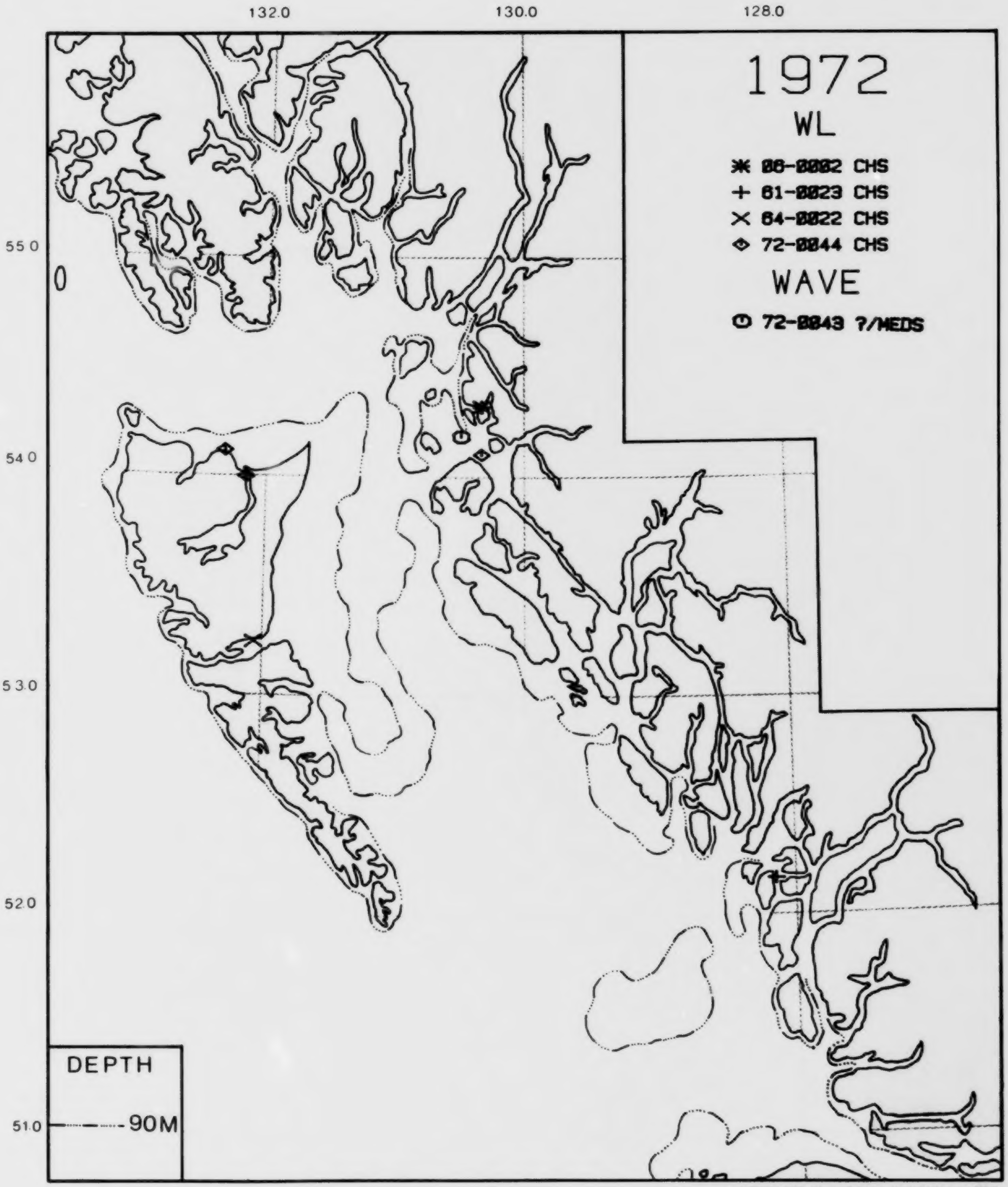
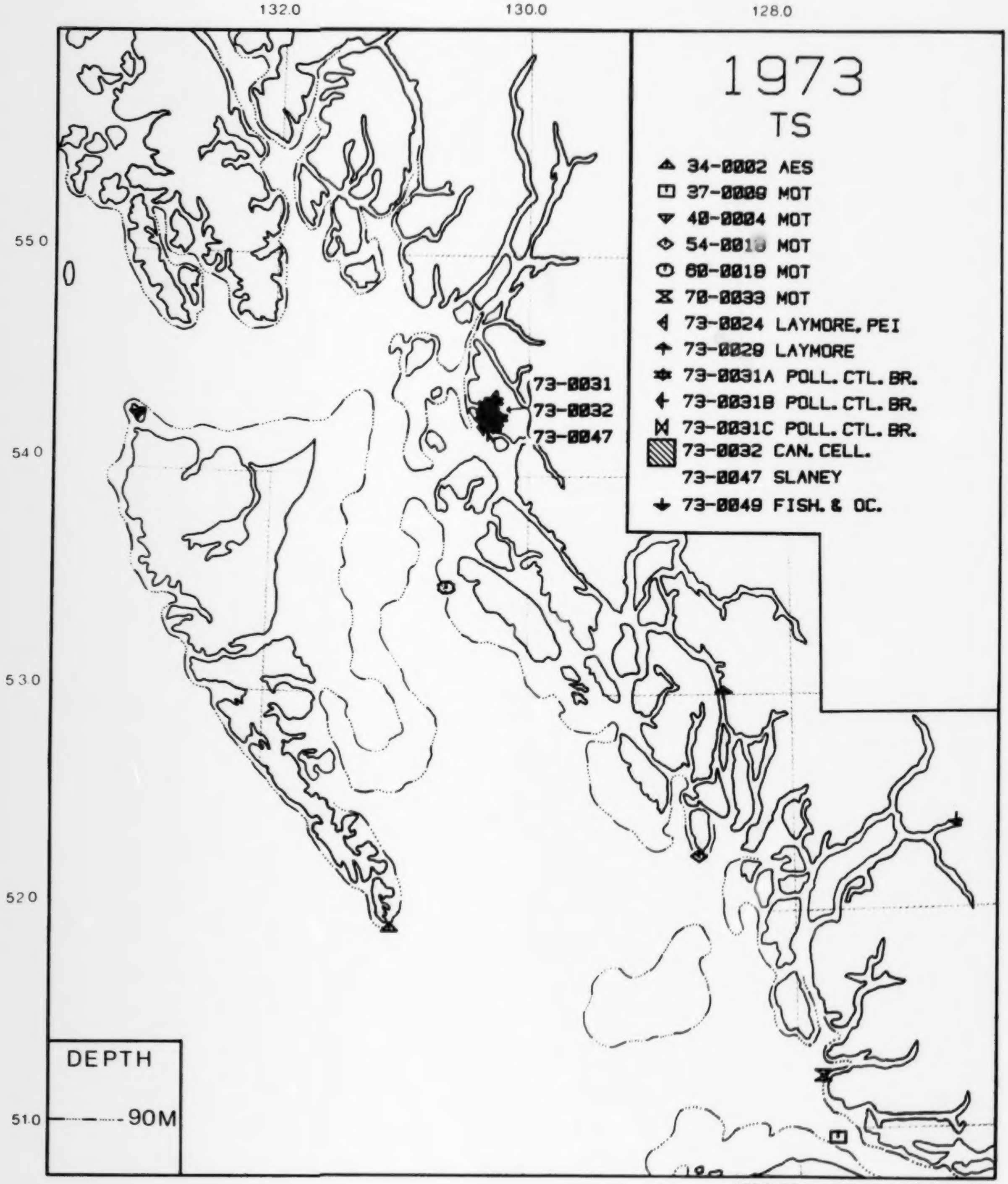
51.0
130.0
128.0
DEPTH
90M
1972
TS
▲ 34-0002 AES
☐ 37-0009 MOT
▼ 54-0010 MOT
◇ 70-0033 MOT
○ 72-0025 VECTOR
⧗ 72-00360 LAYMORE

INSTITUTE OF OCEAN SCIENCES.1983


132.0
130.0
128.0
1972
WL
✳ 08-0002 CHS
+ 61-0023 CHS
× 64-0022 CHS
◇ 72-0044 CHS
WAVE
⏻ 72-0043 ?/MEDS
55.0
0
54.0
53.0
52.0
51.0
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983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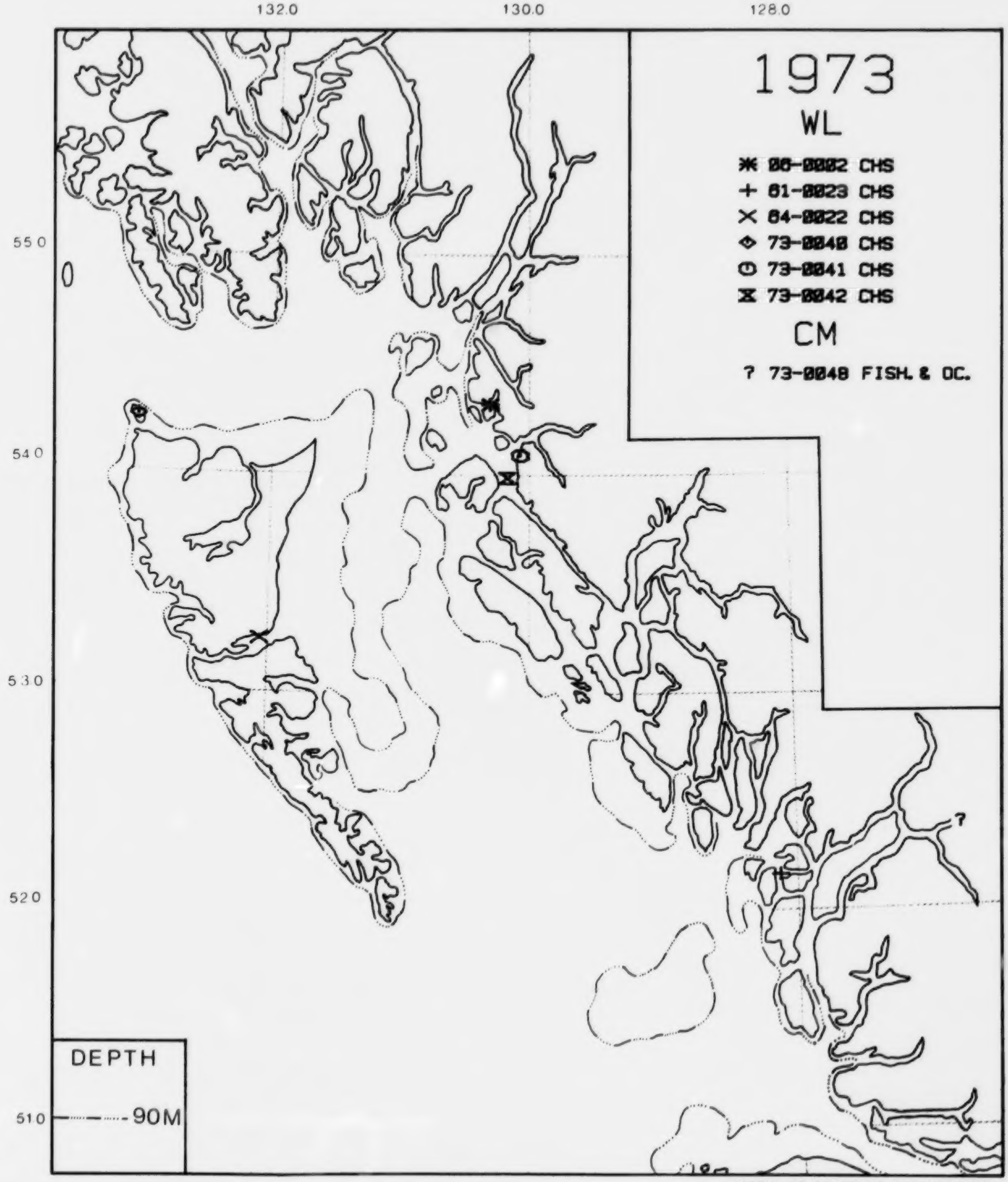
52.0
51.0
1973
TS
34-0002 AES
37-0008 MOT
40-0004 MOT
54-0018 MOT
60-0018 MOT
70-0033 MOT
73-0024 LAYMORE, PEI
73-0028 LAYMORE
73-0031A POLL. CTL. BR.
73-0031B POLL. CTL. BR.
73-0031C POLL. CTL. BR.
73-0032 CAN. CELL.
73-0047 SLANEY
73-0049 FISH. & OC.
73-0031
73-0032
73-0047
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES, 1983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130.0
128.0
55.0
54.0
53.0
52.0
51.0
1973
WL
✱ 06-0002 CHS
+ 61-0023 CHS
× 64-0022 CHS
◇ 73-0040 CHS
⊕ 73-0041 CHS
⧖ 73-0042 CHS
CM
? 73-0048 FISH. & OC.
?
DEPTH
-90M

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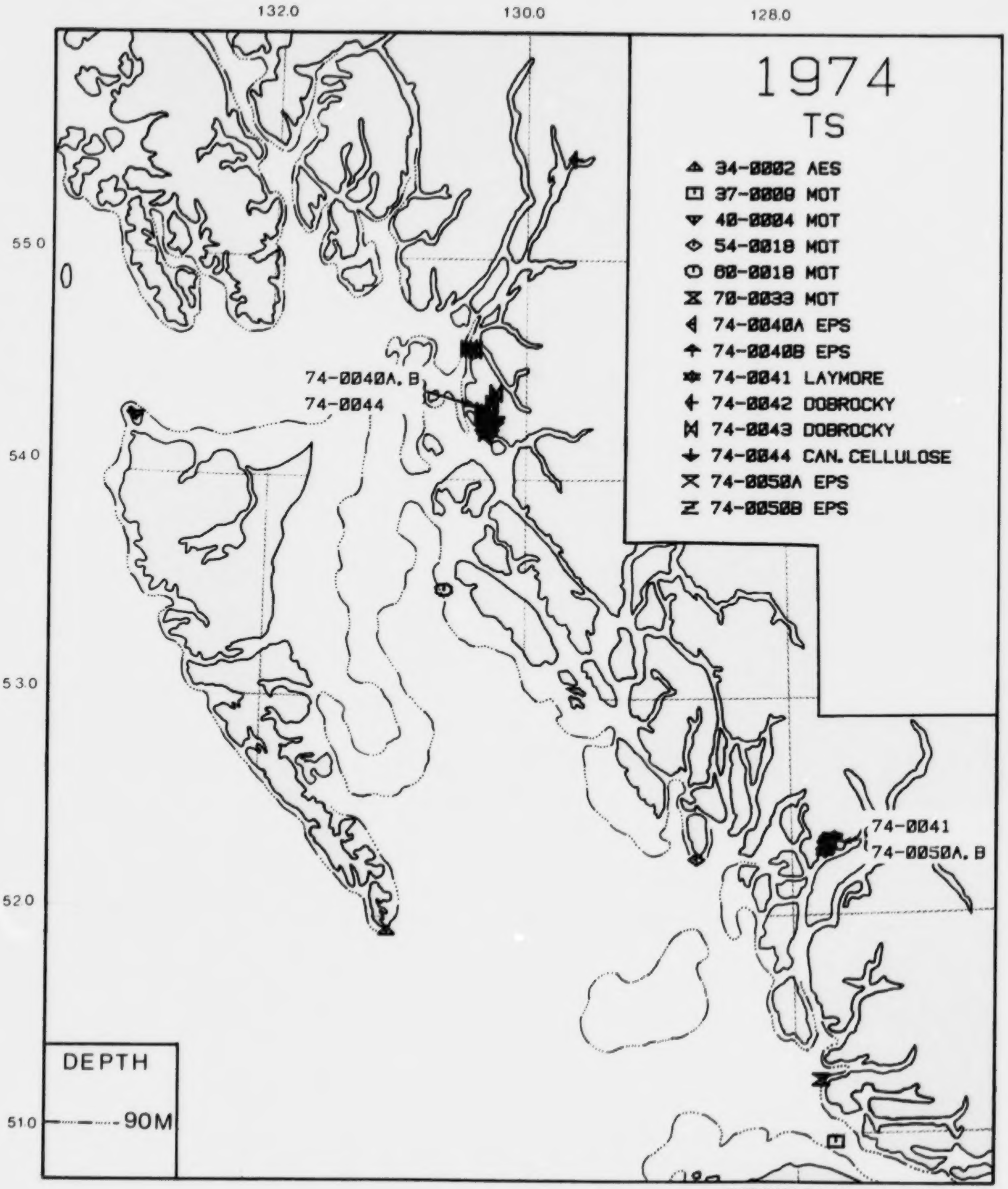
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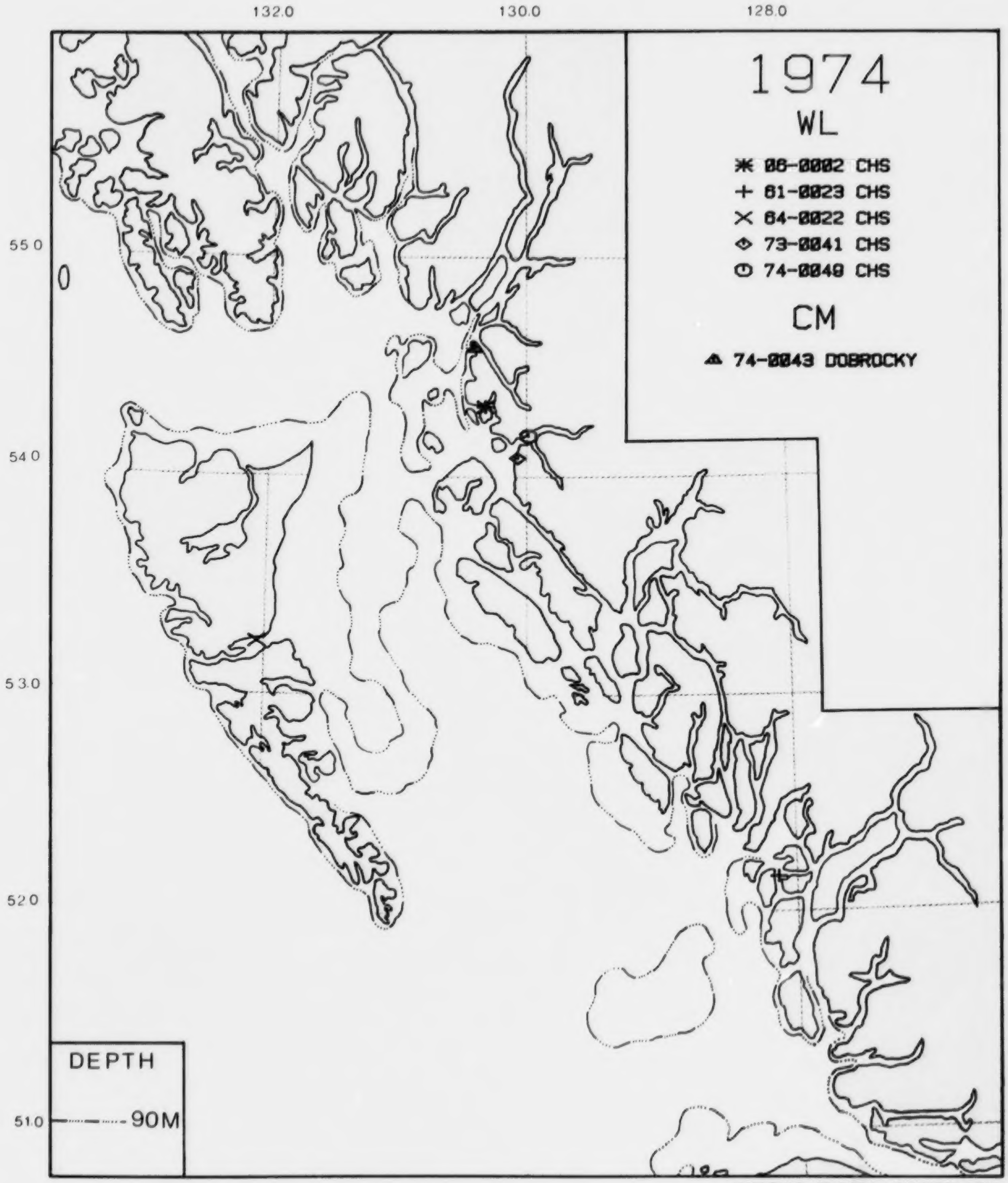
53.0
52.0
51.0
1974
TS
34-0002 AES
37-0008 MOT
40-0004 MOT
54-0018 MOT
60-0018 MOT
70-0033 MOT
74-0040A EPS
74-0040B EPS
74-0041 LAYMORE
74-0042 DOBROCKY
74-0043 DOBROCKY
74-0044 CAN. CELLULOSE
74-0050A EPS
74-0050B EPS
74-0040A, B
74-0044
74-0041
74-0050A, B
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES, 1983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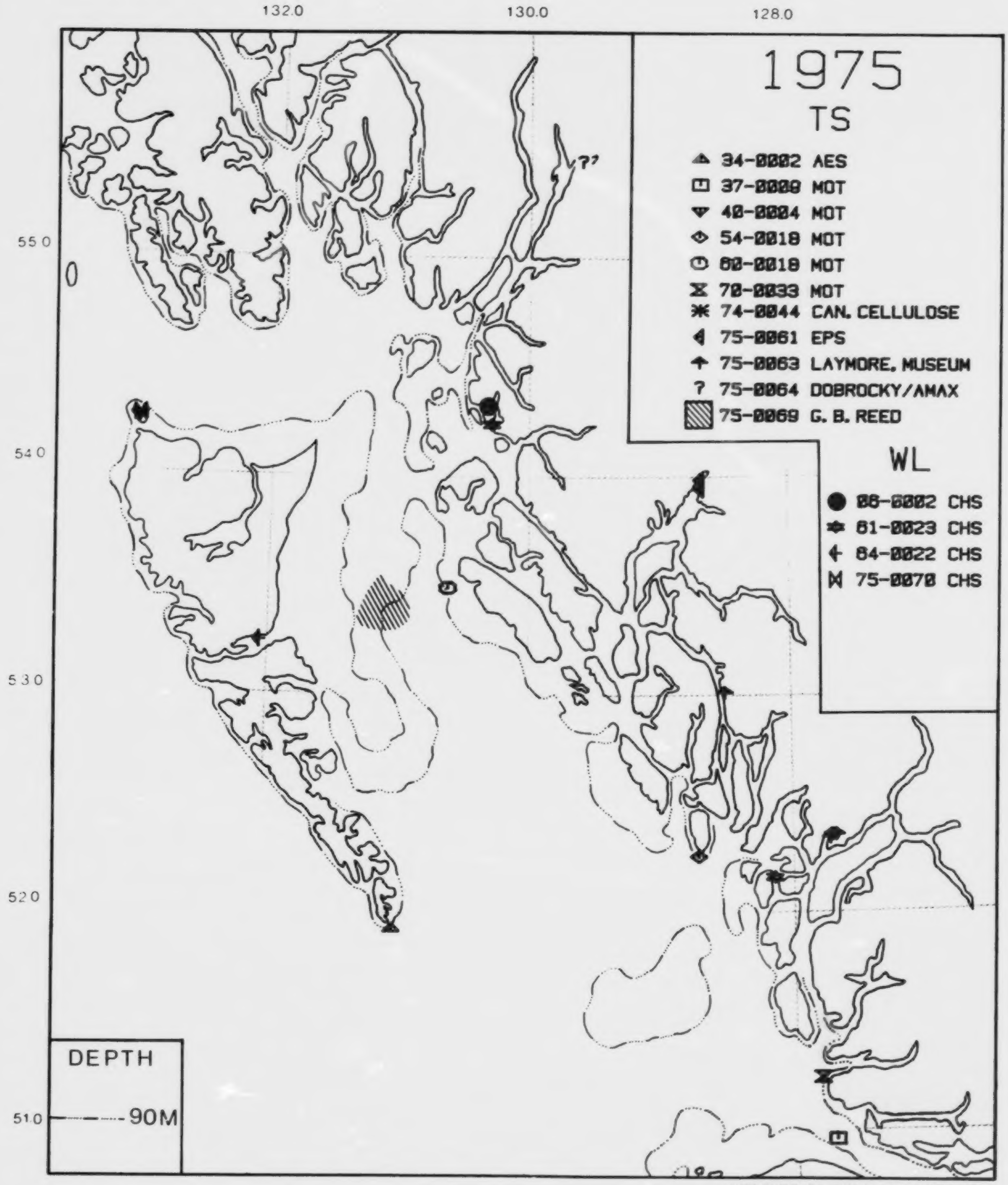
55.0
54.0
53.0
52.0
51.0
1974
WL
✳ 08-0002 CHS
+ 81-0023 CHS
× 64-0022 CHS
◇ 73-0041 CHS
⊙ 74-0048 CHS
CM
▲ 74-0043 DOBROCKY
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES, 1983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1975
TS
▲ 34-0002 AES
⊡ 37-0008 MOT
▼ 40-0004 MOT
◈ 54-0018 MOT
⏀ 60-0018 MOT
⧗ 70-0033 MOT
✳ 74-0044 CAN. CELLULOSE
◀ 75-0061 EPS
↑ 75-0063 LAYMORE. MUSEUM
? 75-0064 DOBROCKY/AMAX
▨ 75-0069 G. B. REED
WL
● 08-6002 CHS
✵ 61-0023 CHS
⸸ 64-0022 CHS
⋈ 75-0070 CHS
??
DEPTH
90M

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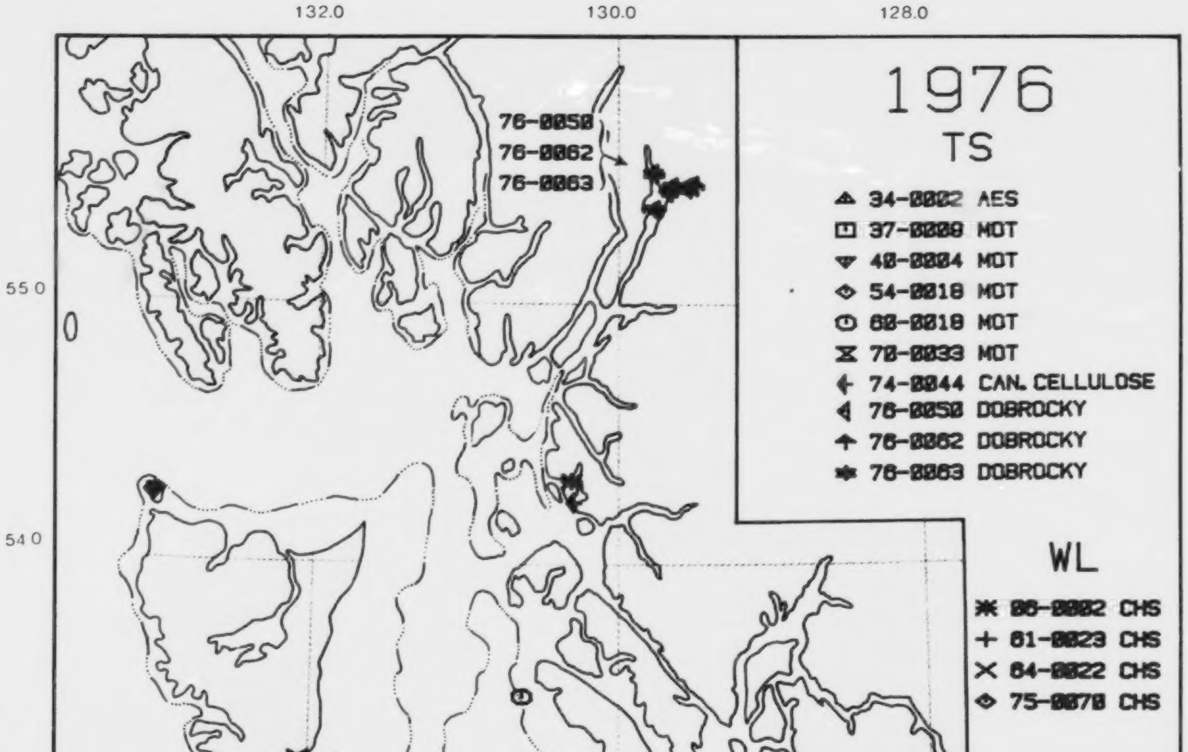
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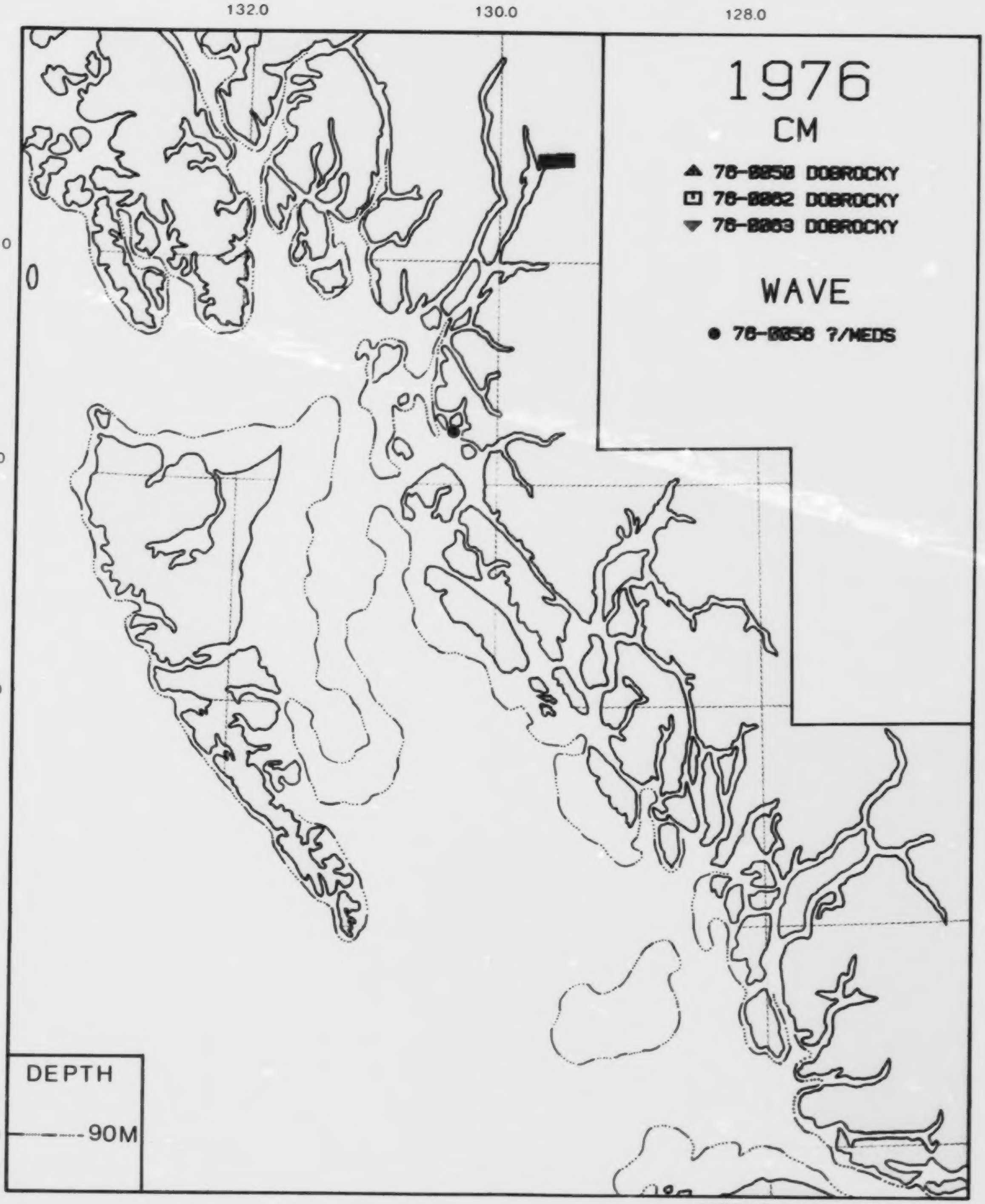
52.0
51.0
76-0050
76-0062
76-0063
1976
TS
34-0002 AES
37-0008 MOT
40-0004 MOT
54-0018 MOT
60-0018 MOT
70-0033 MOT
74-0044 CAN. CELLULOSE
76-0050 DOBROCKY
76-0062 DOBROCKY
76-0063 DOBROCKY
WL
06-0002 CHS
61-0023 CHS
64-0022 CHS
75-0070 CHS
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983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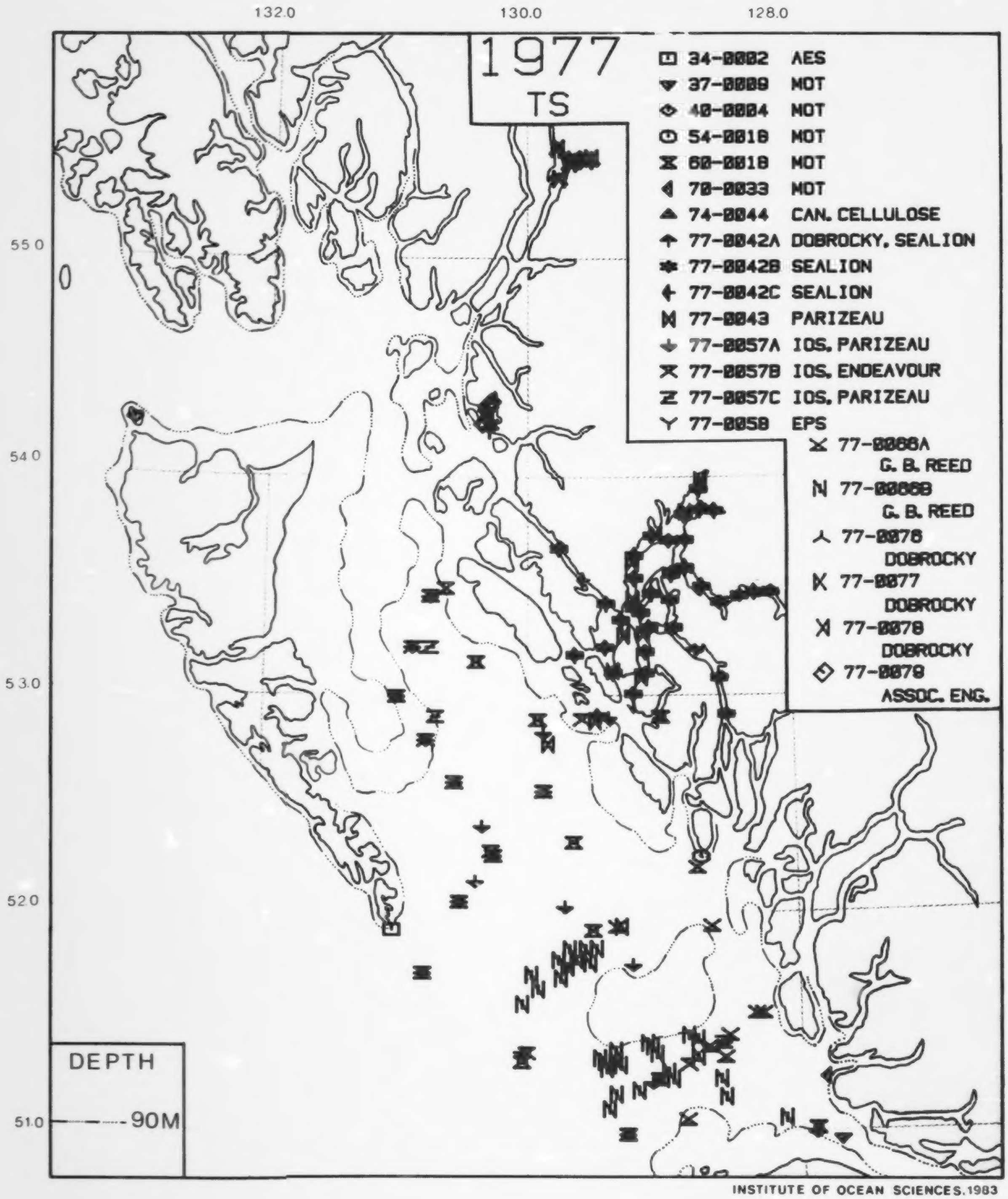
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1976
CM
▲ 76-0050 DOBROCKY
□ 76-0062 DOBROCKY
▼ 76-0063 DOBROCKY
WAVE
● 76-0058 ?/MEDS
DEPTH
----90M

INSTITUTE OF OCEAN SCIENCES.1983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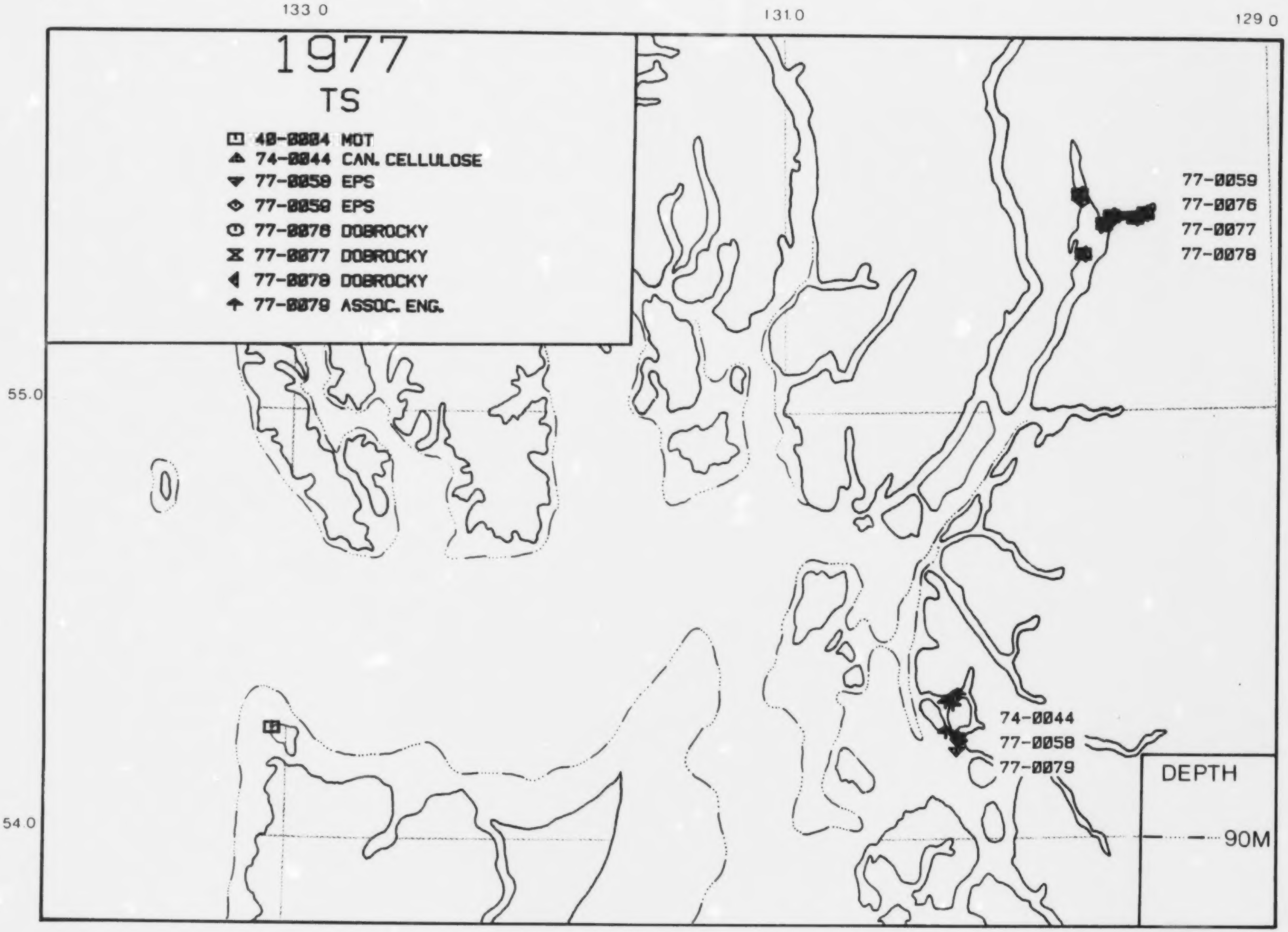
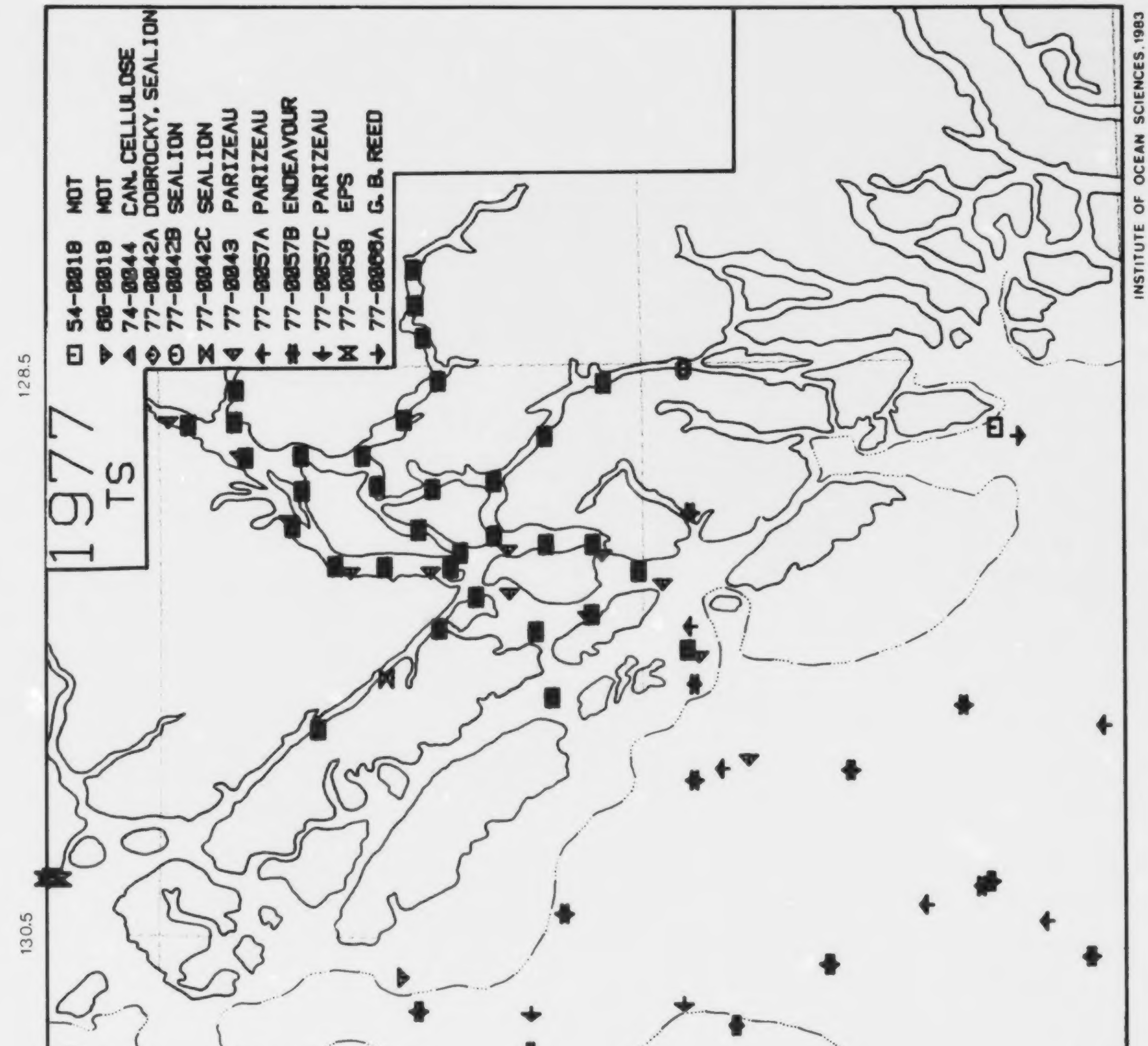
54.0
53.0
52.0
51.0
1977
TS
□ 34-0002 AES
▼ 37-0009 MOT
◇ 40-0004 MOT
○ 54-0018 MOT
⧖ 60-0018 MOT
◀ 70-0033 MOT
▲ 74-0044 CAN. CELLULOSE
↑ 77-0042A DOBROCKY, SEALION
✱ 77-0042B SEALION
← 77-0042C SEALION
⋈ 77-0043 PARIZEAU
↓ 77-0057A IOS, PARIZEAU
X 77-0057B IOS, ENDEAVOUR
Z 77-0057C IOS, PARIZEAU
Y 77-0058 EPS
X 77-0066A G. B. REED
N 77-0066B G. B. REED
人 77-0076 DOBROCKY
K 77-0077 DOBROCKY
X 77-0078 DOBROCKY
◇ 77-0079 ASSOC. ENG.
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES, 1983


1977
TS
40-0004 MOT
74-0044 CAN. CELLULOSE
77-0058 EPS
77-0059 EPS
77-0076 DOBROCKY
77-0077 DOBROCKY
77-0078 DOBROCKY
77-0079 ASSOC. ENG.
133.0
131.0
129.0
55.0
54.0
77-0059
77-0076
77-0077
77-0078
74-0044
77-0058
77-0079
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES. 1983


1977
TS
54-0010 MOT
68-0010 MOT
74-0044 CAN. CELLULOSE
77-0042A DOBROCKY, SEALION
77-0042B SEALION
77-0042C SEALION
77-0043 PARIZEAU
77-0057A PARIZEAU
77-0057B ENDEAVOUR
77-0057C PARIZEAU
77-0058 EPS
77-0060A G. B. REED
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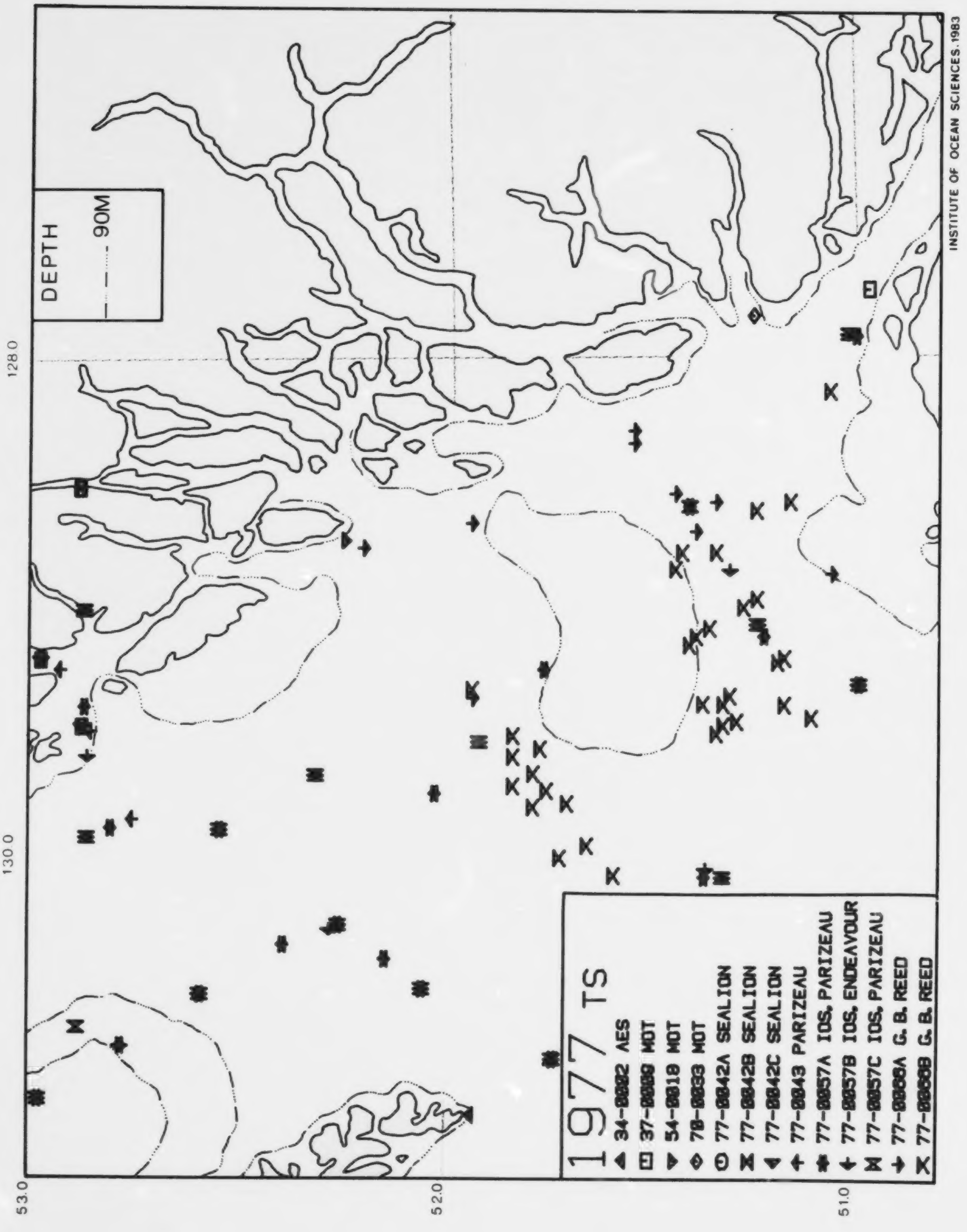
INSTITUTE OF OCEAN SCIENCES, 1983



DEPTH
90M
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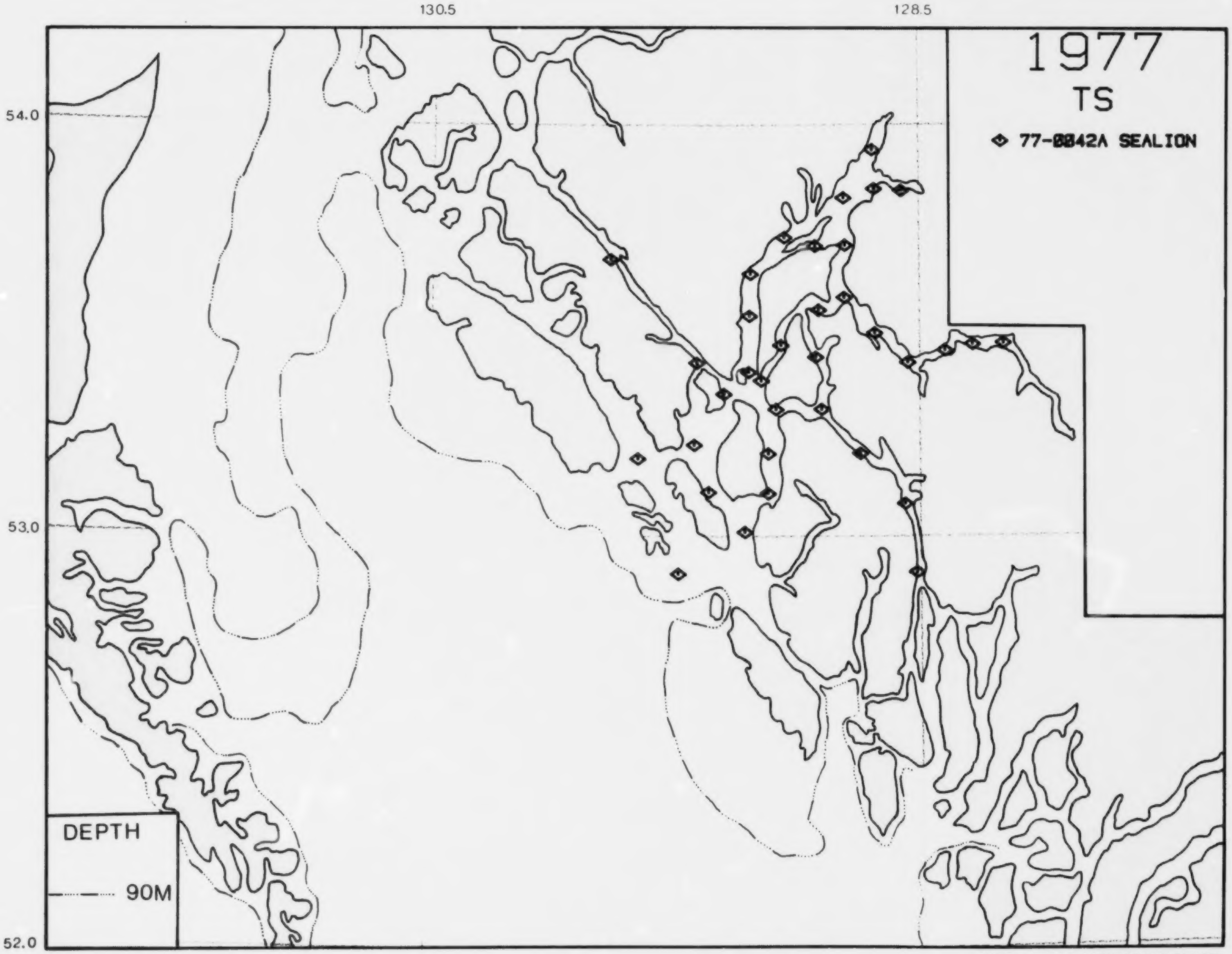
130.0
53.0
52.0
51.0
1977 TS
▲ 34-0002 AES
⊡ 37-0009 MOT
▼ 54-0018 MOT
◇ 70-0033 MOT
⊙ 77-0042A SEALION
⧗ 77-0042B SEALION
◀ 77-0042C SEALION
✛ 77-0043 PARIZEAU
✱ 77-0057A IOS, PARIZEAU
↓ 77-0057B IOS, ENDEAVOUR
⋈ 77-0057C IOS, PARIZEAU
→ 77-0068A G. B. REED
K 77-0068B G. B. REED
INSTITUTE OF OCEAN SCIENCES. 1983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TS
77-0042A SEALION
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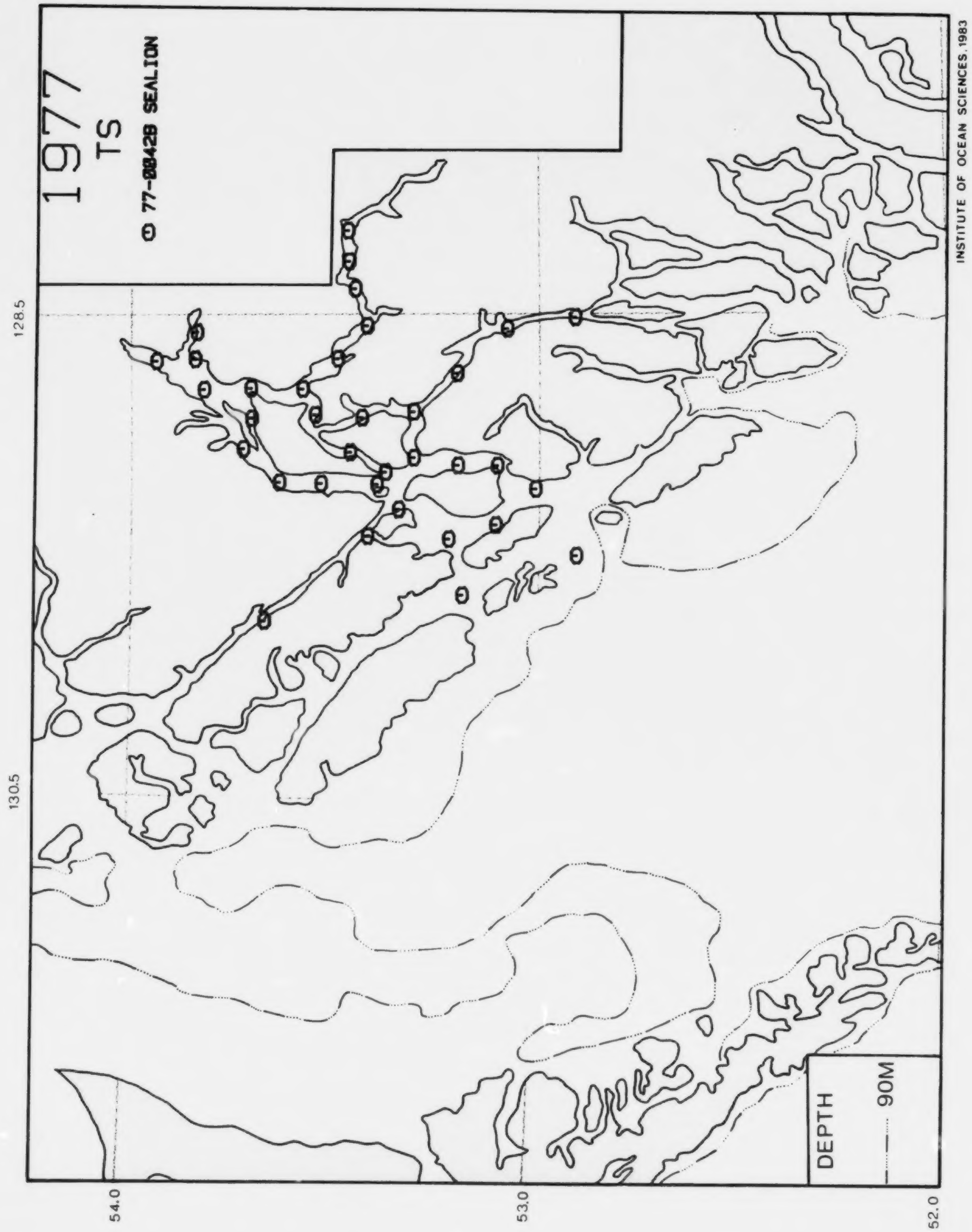
53.0
52.0
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983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TS
77-0842B SEALION
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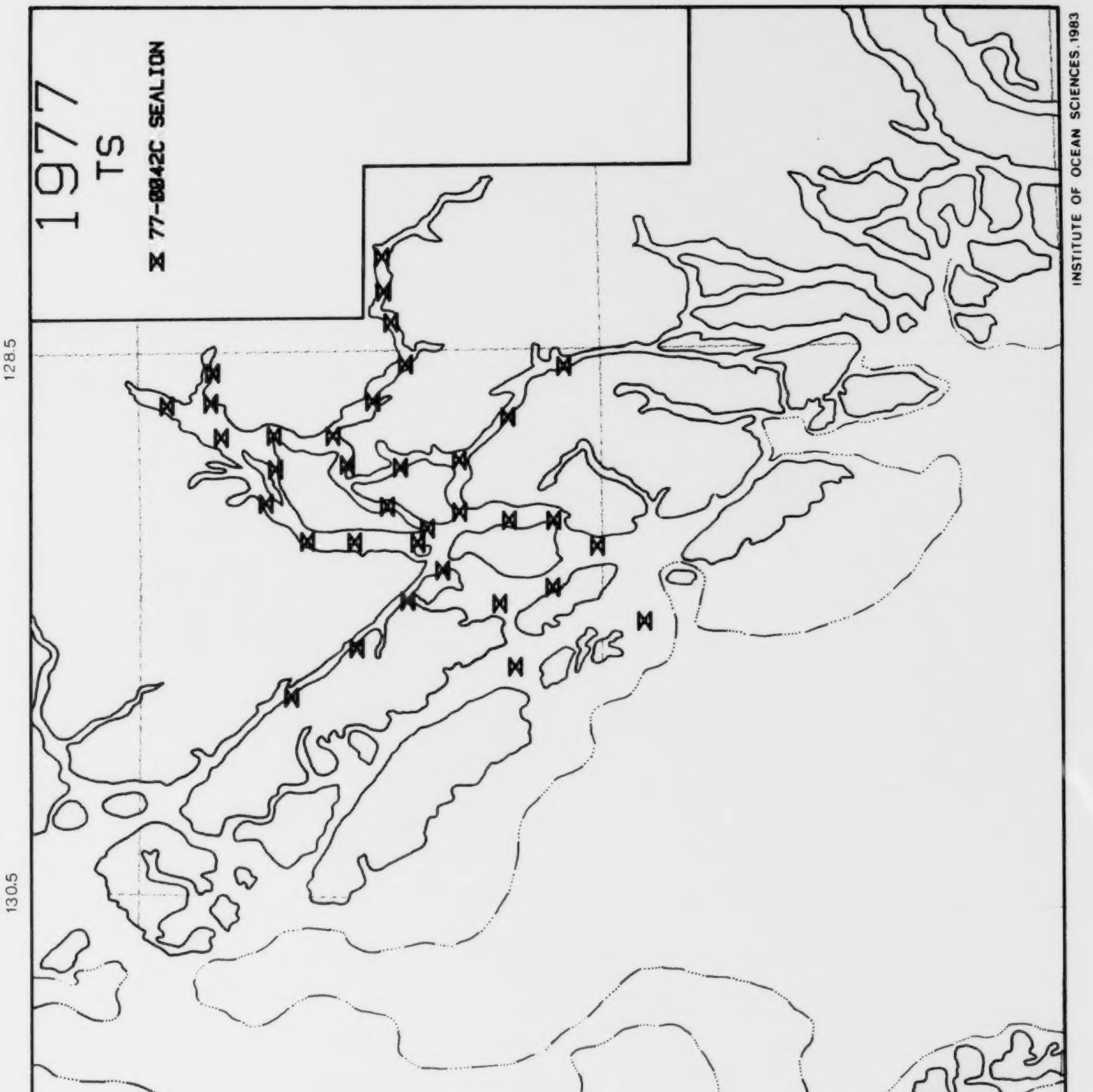
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES, 1983


1977
TS
77-0042C SEALION
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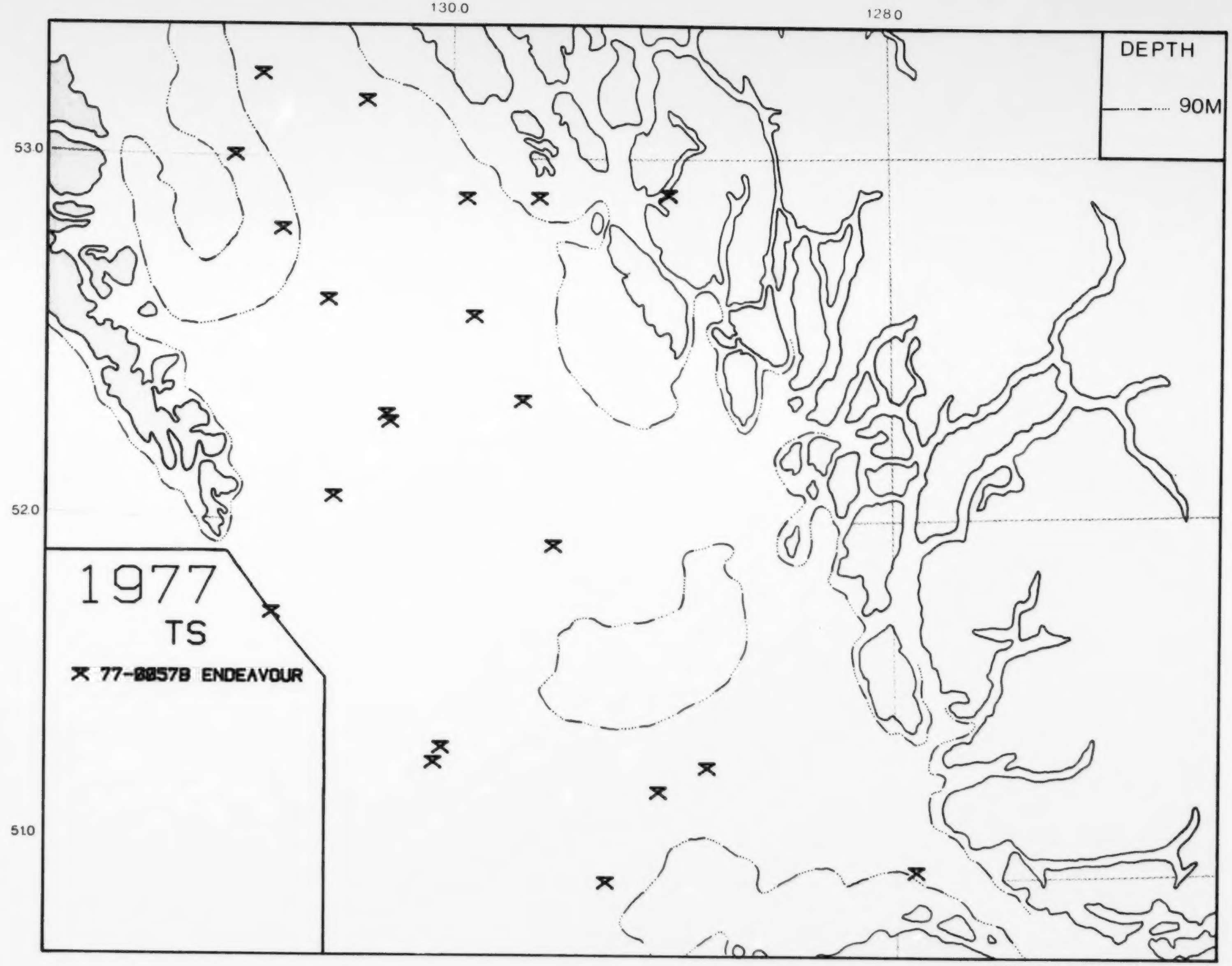
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES, 1983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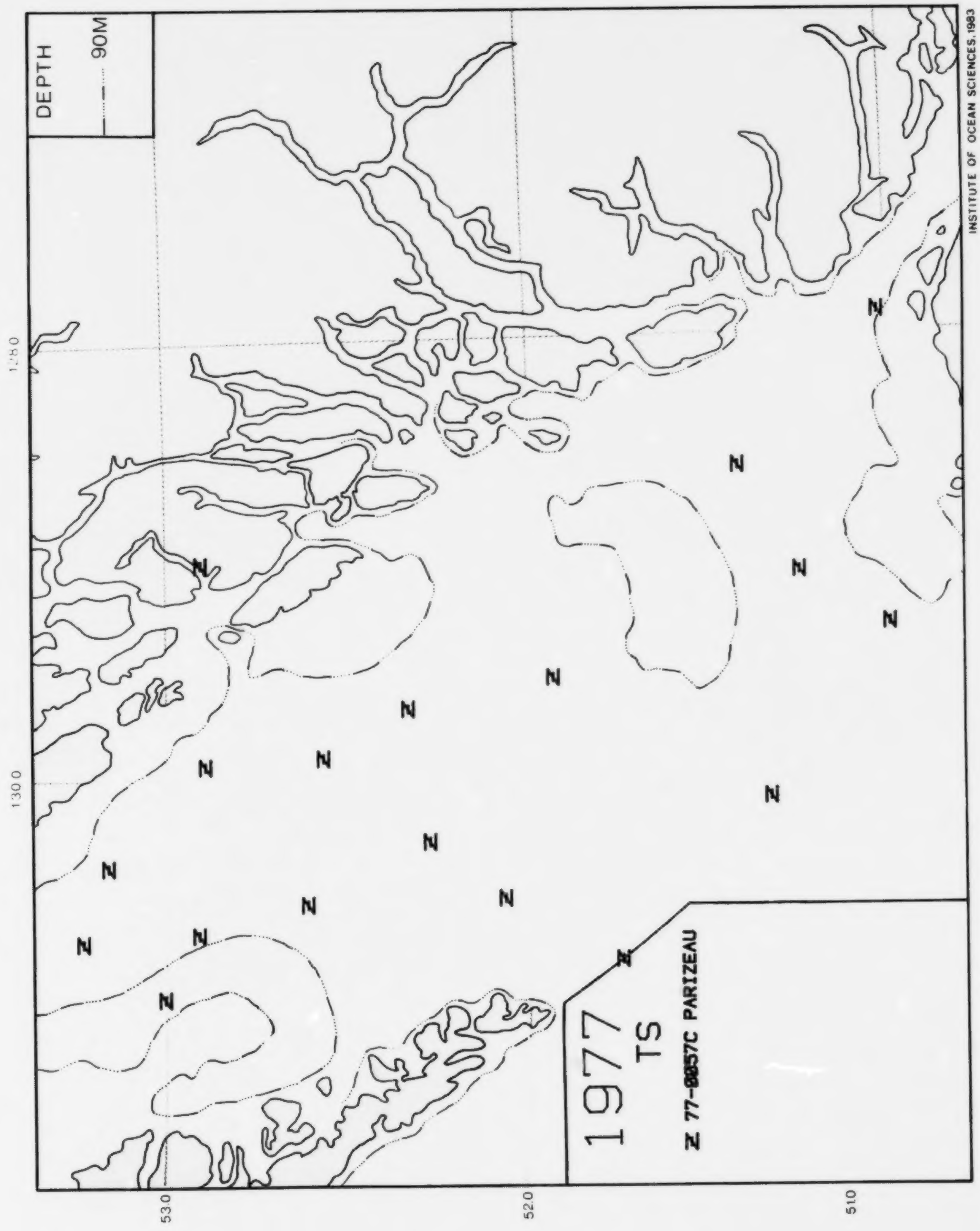
DEPTH
90M
1977
TS
77-0057B ENDEAVOUR

INSTITUTE OF OCEAN SCIENCES, 1983


DEPTH
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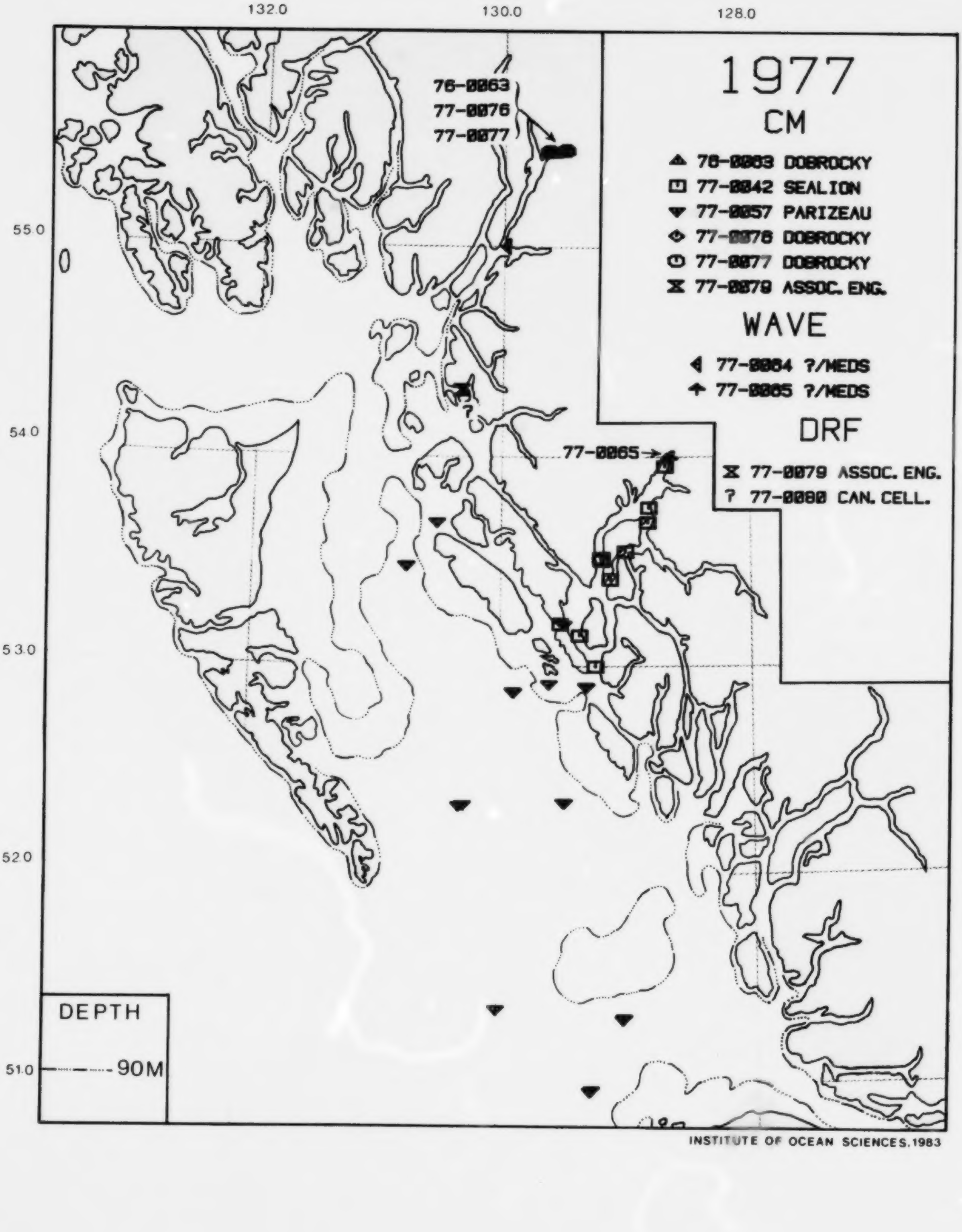
52.0
51.0
1977
TS
Z 77-0057C PARIZEAU
INSTITUTE OF OCEAN SCIENCES, 1983


132.0
130.0
128.0
55.0
54.0
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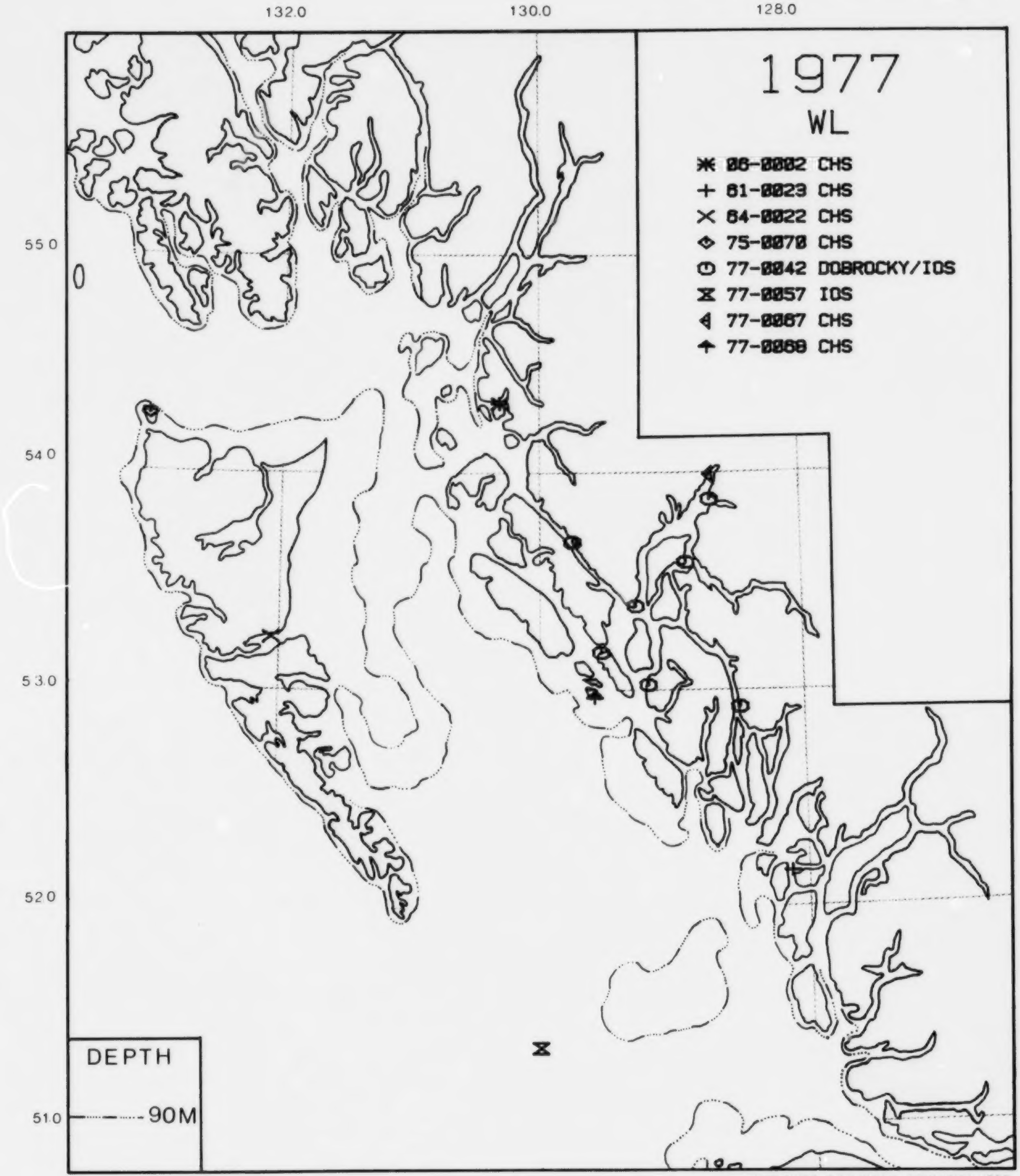
52.0
51.0
76-0063
77-0076
77-0077
77-0065→
1977
CM
▲ 76-0063 DOBROCKY
◻ 77-0042 SEALION
▼ 77-0057 PARIZEAU
◇ 77-0076 DOBROCKY
○ 77-0077 DOBROCKY
⧗ 77-0079 ASSOC. ENG.
WAVE
◁ 77-0064 ?/MEDS
↑ 77-0065 ?/MEDS
DRF
⧗ 77-0079 ASSOC. ENG.
? 77-0080 CAN. CELL.
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES, 1983


132.0
130.0
128.0
1977
WL
✳ 06-0002 CHS
+ 61-0023 CHS
× 64-0022 CHS
◈ 75-0070 CHS
⏀ 77-0042 DOBROCKY/IOS
⧗ 77-0057 IOS
◁ 77-0067 CHS
↑ 77-0068 CHS
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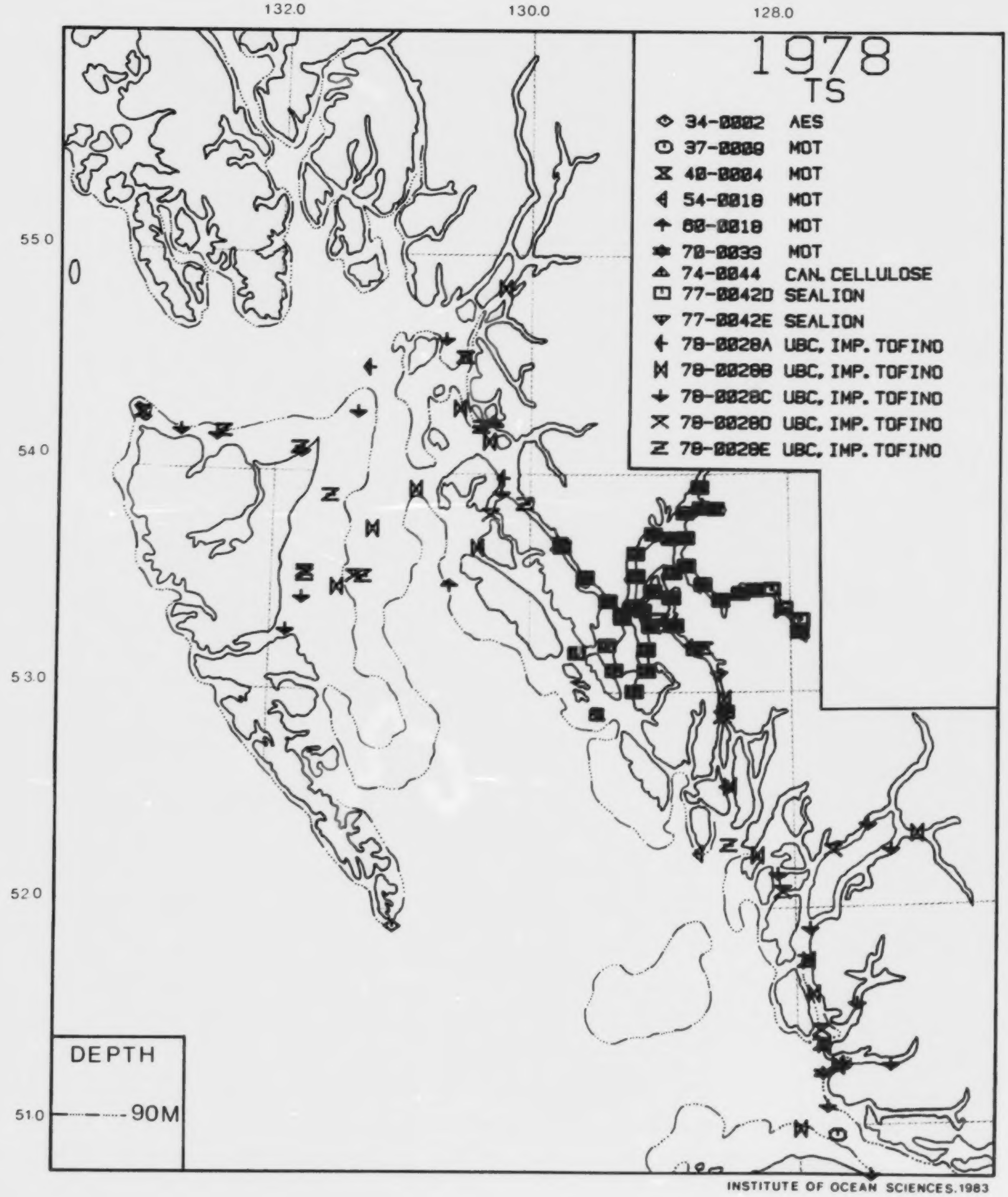
53.0
52.0
51.0
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983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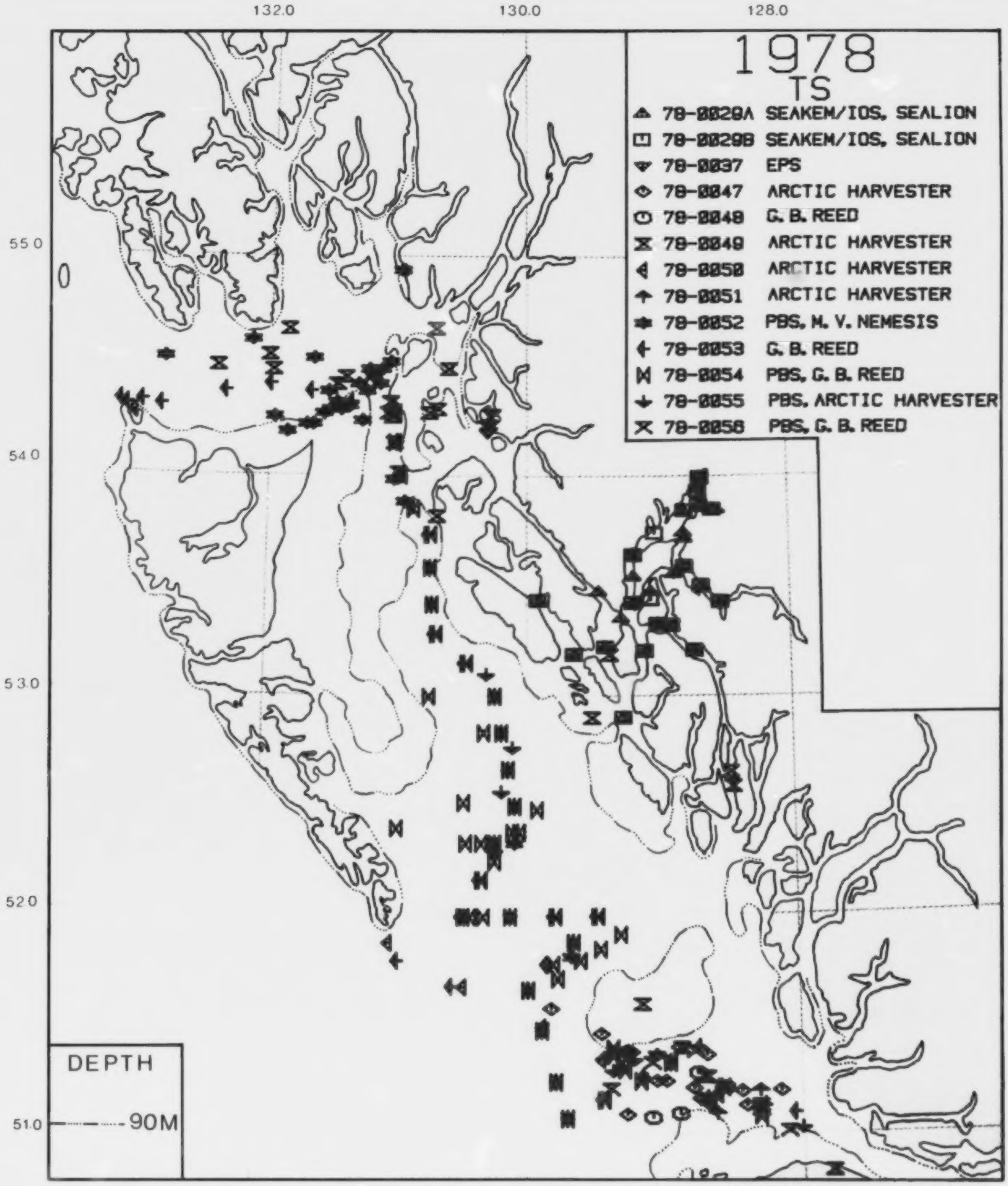
51.0
1978
TS
34-0002 AES
37-0008 MOT
40-0004 MOT
54-0018 MOT
60-0018 MOT
70-0033 MOT
74-0044 CAN. CELLULOSE
77-0042D SEALION
77-0042E SEALION
78-0028A UBC, IMP. TOFINO
78-0028B UBC, IMP. TOFINO
78-0028C UBC, IMP. TOFINO
78-0028D UBC, IMP. TOFINO
78-0028E UBC, IMP. TOFINO
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983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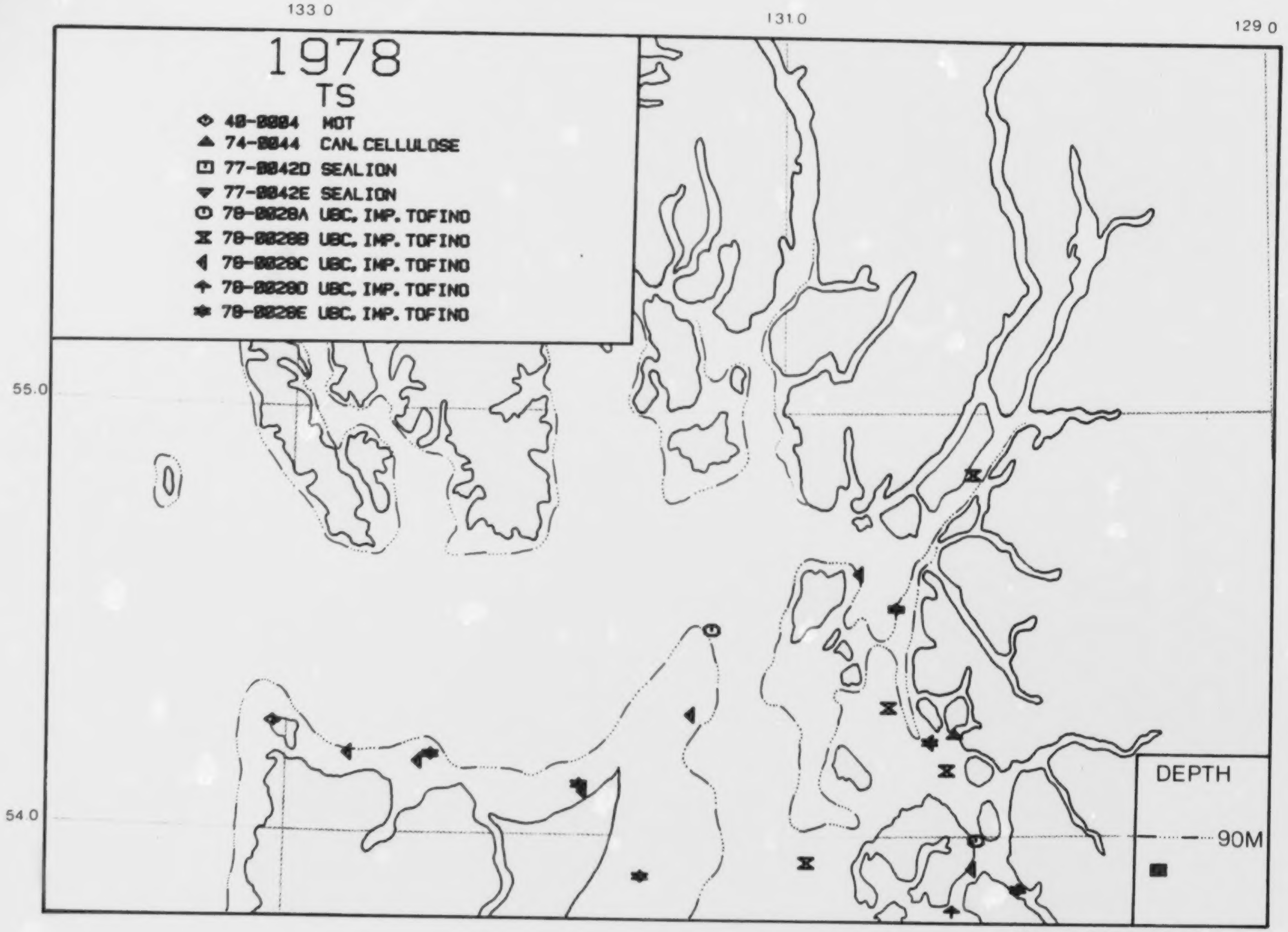
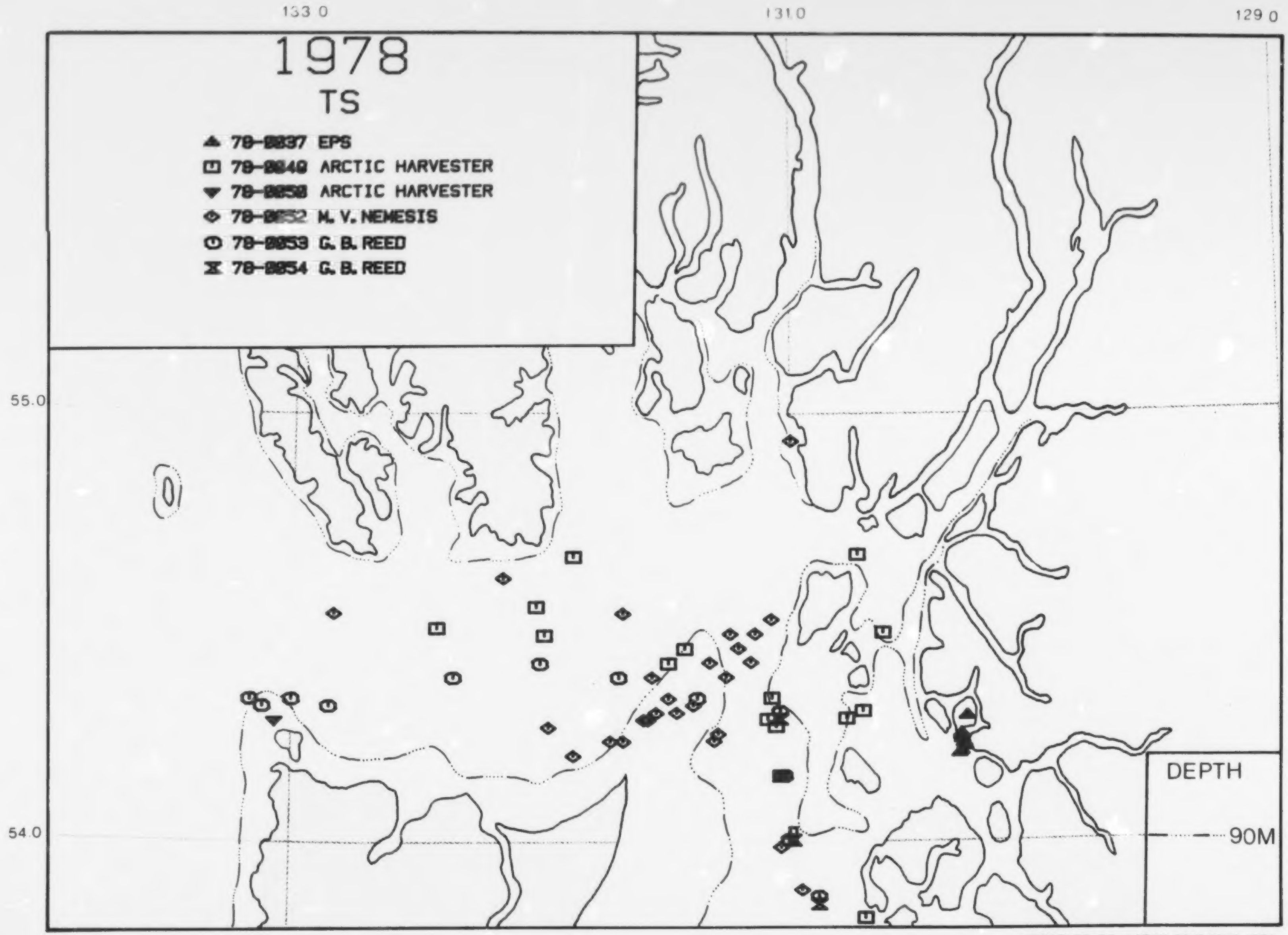
52.0
51.0
1978
TS
78-0029A SEAKEM/IOS, SEALION
78-0029B SEAKEM/IOS, SEALION
78-0037 EPS
78-0047 ARCTIC HARVESTER
78-0048 G. B. REED
78-0049 ARCTIC HARVESTER
78-0050 ARCTIC HARVESTER
78-0051 ARCTIC HARVESTER
78-0052 PBS, M. V. NEMESIS
78-0053 G. B. REED
78-0054 PBS, G. B. REED
78-0055 PBS, ARCTIC HARVESTER
78-0056 PBS, G. B. REED
DEPTH
90M

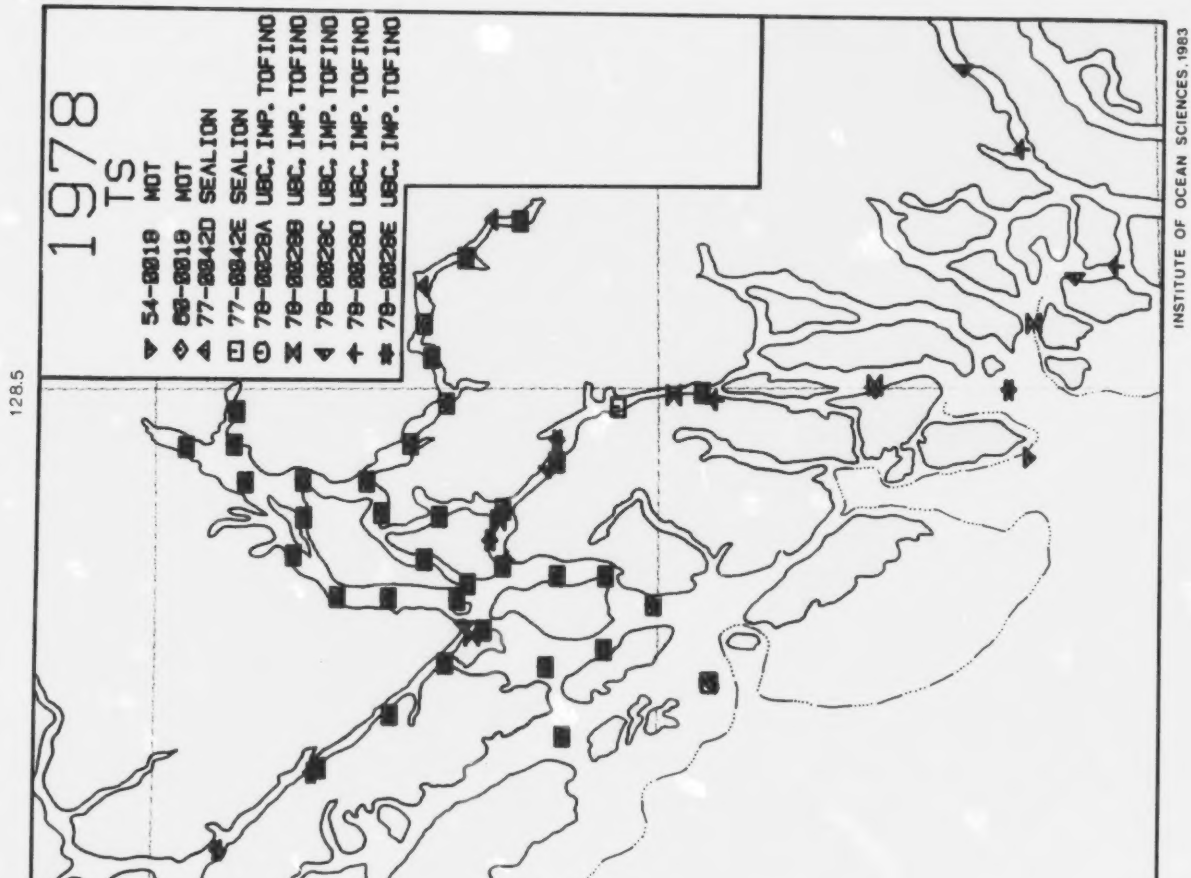
INSTITUTE OF OCEAN SCIENCES.1983


133 0
131.0
129 0
55.0
54.0
1978
TS
◇ 40-0004 MOT
▲ 74-0044 CAN. CELLULOSE
⊡ 77-0042D SEALION
▼ 77-0042E SEALION
78-0028A UBC, IMP. TOFINO
78-0028B UBC, IMP. TOFINO
◀ 78-0028C UBC, IMP. TOFINO
78-0028D UBC, IMP. TOFINO
✱ 78-0028E UBC, IMP. TOFINO
DEPTH
90M

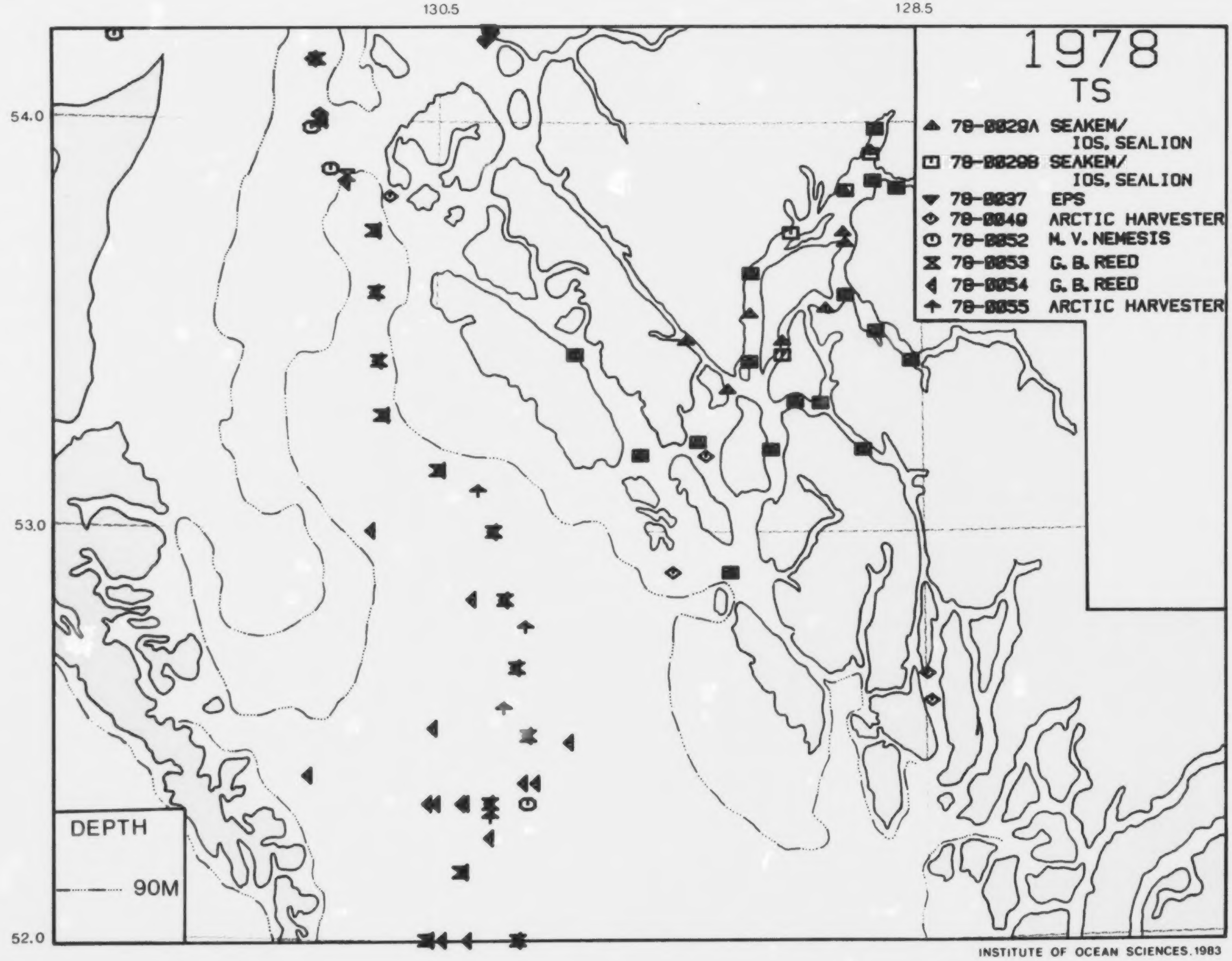
INSTITUTE OF OCEAN SCIENCES.1983


133 0
131.0
129 0
55.0
54.0
1978
TS
▲ 78-0037 EPS
⊔ 78-0040 ARCTIC HARVESTER
▼ 78-0050 ARCTIC HARVESTER
◇ 78-0052 M. V. NEMESIS
⊙ 78-0053 G. B. REED
⧗ 78-0054 G. B. REED
DEPTH
90M

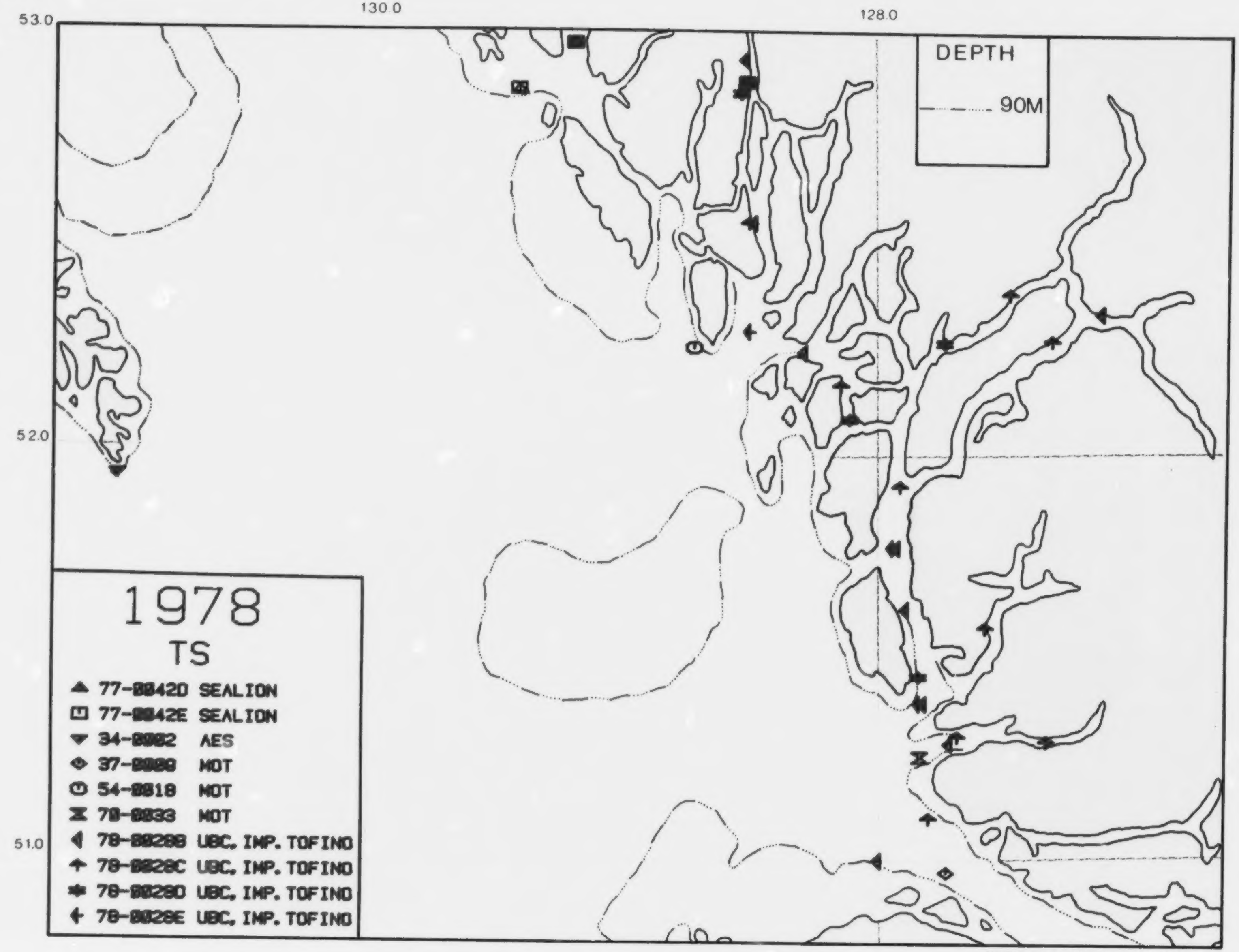
INSTITUTE OF OCEAN SCIENCES. 1983


1978
TS
▼ 54-0018 MOT
◇ 60-0018 MOT
▲ 77-0042D SEALION
⊡ 77-0042E SEALION
⊙ 78-0028A UBC, IMP. TOFINO
⧗ 78-0028B UBC, IMP. TOFINO
◀ 78-0028C UBC, IMP. TOFINO
✦ 78-0028D UBC, IMP. TOFINO
✱ 78-0028E UBC, IMP. TOFINO
128.5
130.5
54.0
53.0
52.0
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES, 1983


1978
TS
78-0029A SEAKEM/ IOS, SEALION
78-0029B SEAKEM/ IOS, SEALION
78-0037 EPS
78-0049 ARCTIC HARVESTER
78-0052 M. V. NEMESIS
78-0053 G. B. REED
78-0054 G. B. REED
78-0055 ARCTIC HARVESTER
130.5
128.5
54.0
53.0
52.0
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES. 1983


130.0
128.0
53.0
52.0
51.0
DEPTH
90M
1978
TS
▲ 77-0042D SEALION
⊡ 77-0042E SEALION
▼ 34-0002 AES
◈ 37-0008 MOT
ʘ 54-0018 MOT
⧗ 78-0033 MOT
◀ 78-0028B UBC, IMP. TOFINO
✦ 78-0028C UBC, IMP. TOFINO
✱ 78-0028D UBC, IMP. TOFINO
✦ 78-0028E UBC, IMP. TOFINO

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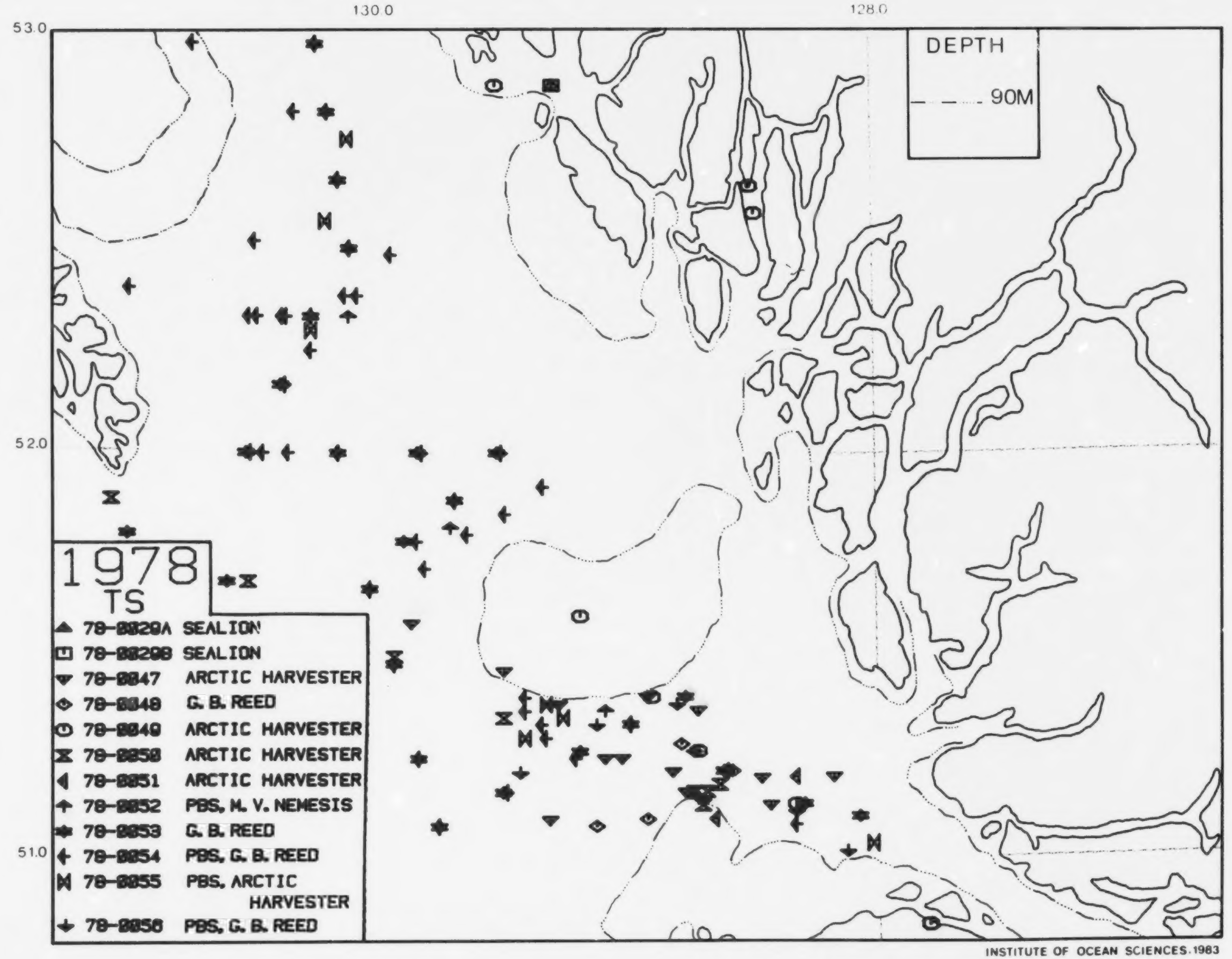
130.0
128.0
53.0
52.0
51.0
DEPTH
90M
1978
TS
▲ 78-0029A SEALION
⊡ 78-0029B SEALION
78-0047 ARCTIC HARVESTER
◇ 78-0048 G. B. REED
78-0049 ARCTIC HARVESTER
78-0050 ARCTIC HARVESTER
78-0051 ARCTIC HARVESTER
78-0052 PBS, M. V. NEMESIS
78-0053 G. B. REED
78-0054 PBS, G. B. REED
78-0055 PBS, ARCTIC HARVESTER
78-0056 PBS, G. B. REED

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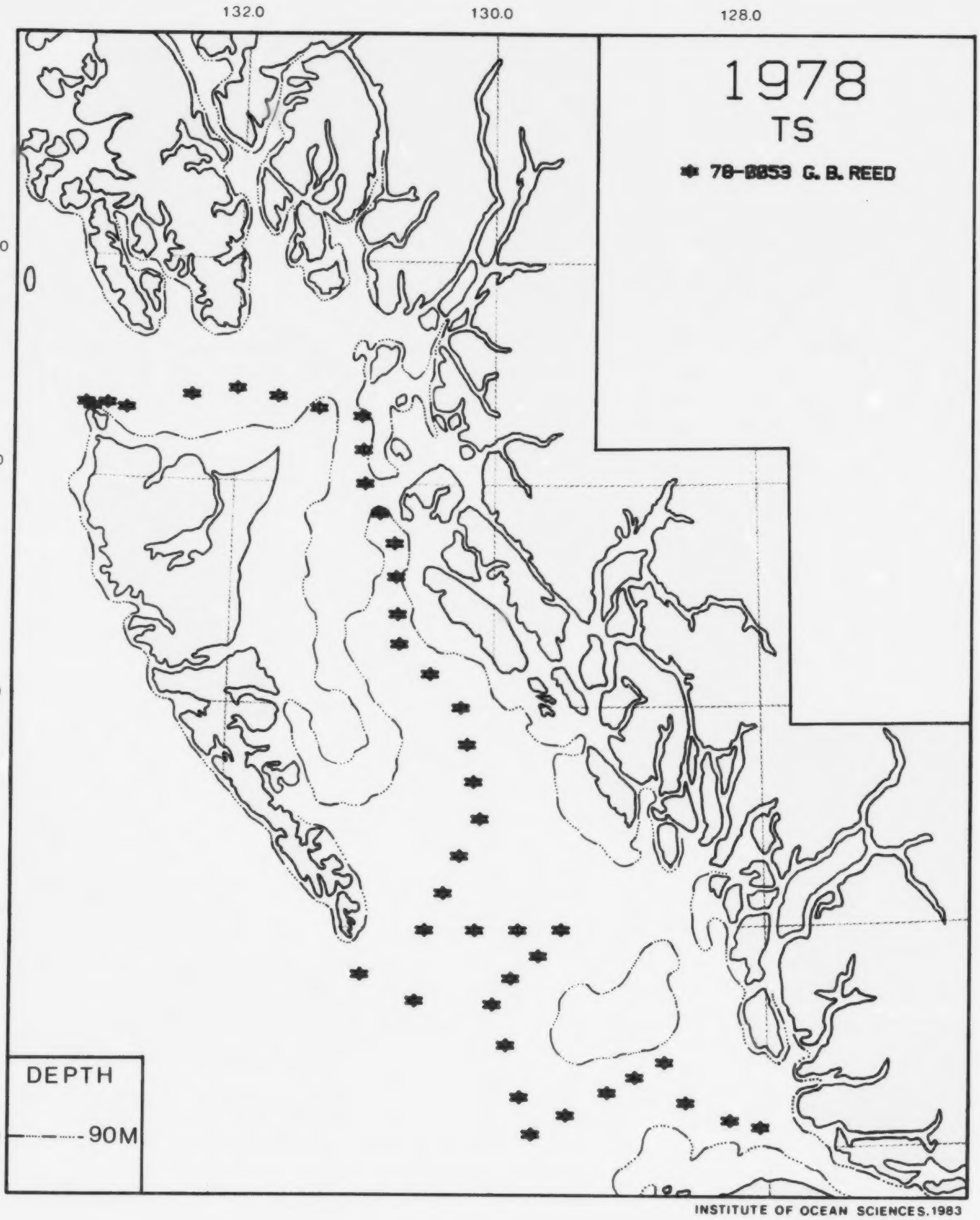
132.0
130.0
128.0
1978
TS
✱ 78-0053 G. B. REED
55.0
54.0
53.0
52.0
51.0
DEPTH
-90M

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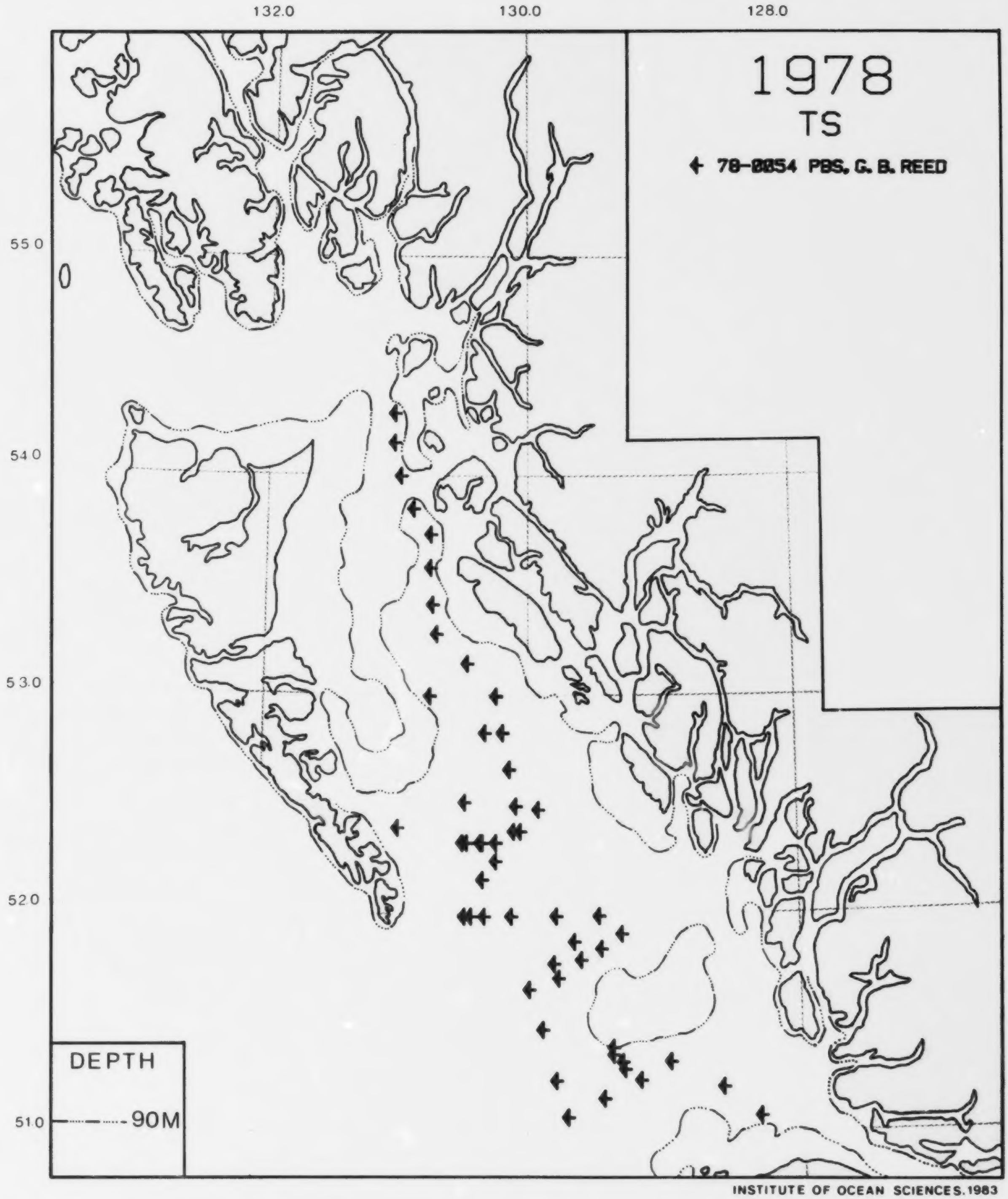
132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1978
TS
78-0054 PBS, G. B. REED
DEPTH
90M

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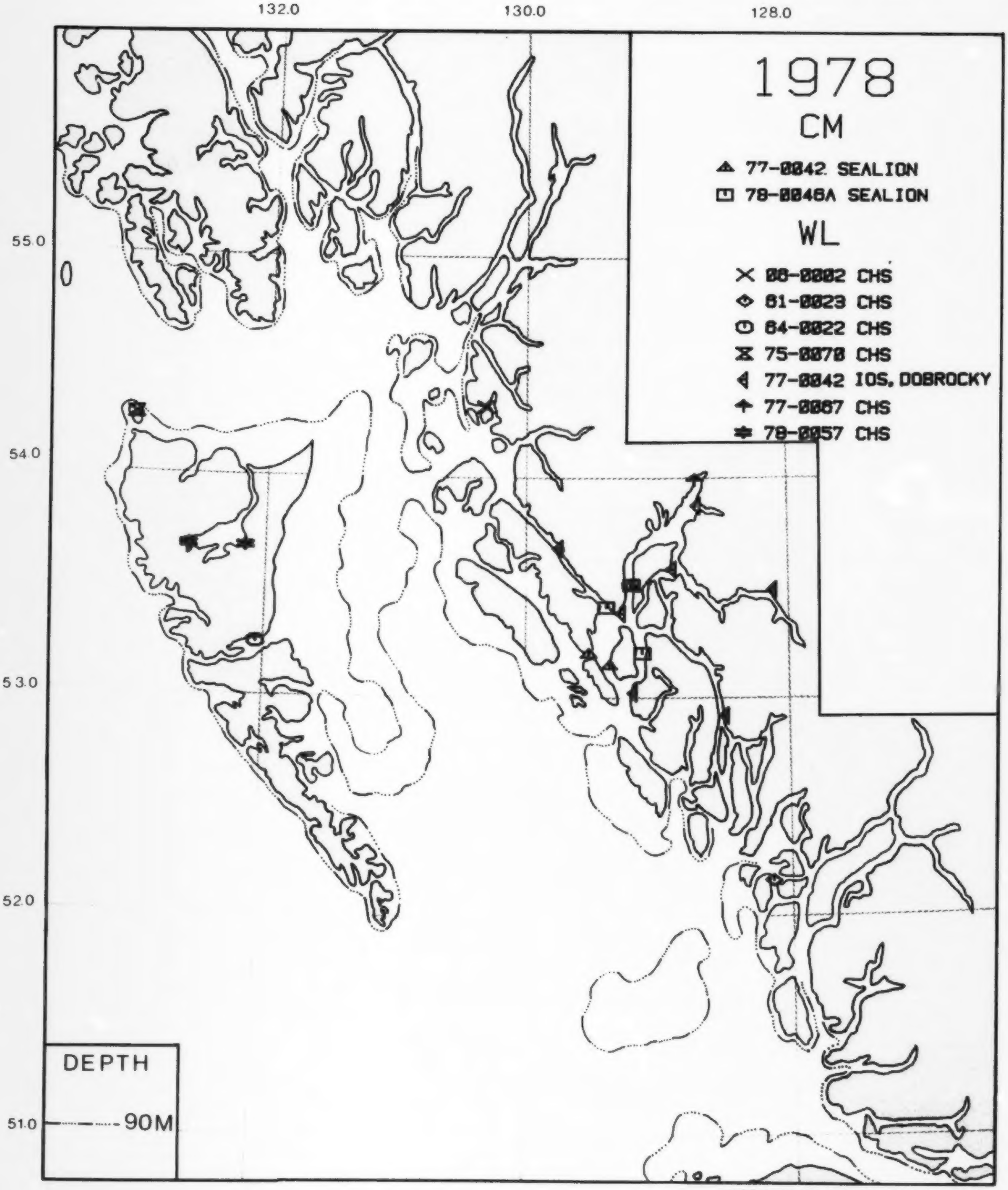
132.0
130.0
128.0
1978
CM
▲ 77-0042 SEALION
⊡ 78-0046A SEALION
WL
× 08-0002 CHS
◈ 81-0023 CHS
⦶ 84-0022 CHS
⧗ 75-0070 CHS
◁ 77-0042 IOS, DOBROCKY
✚ 77-0067 CHS
✱ 78-0057 CHS
55.0
54.0
53.0
52.0
51.0
DEPTH
-90M

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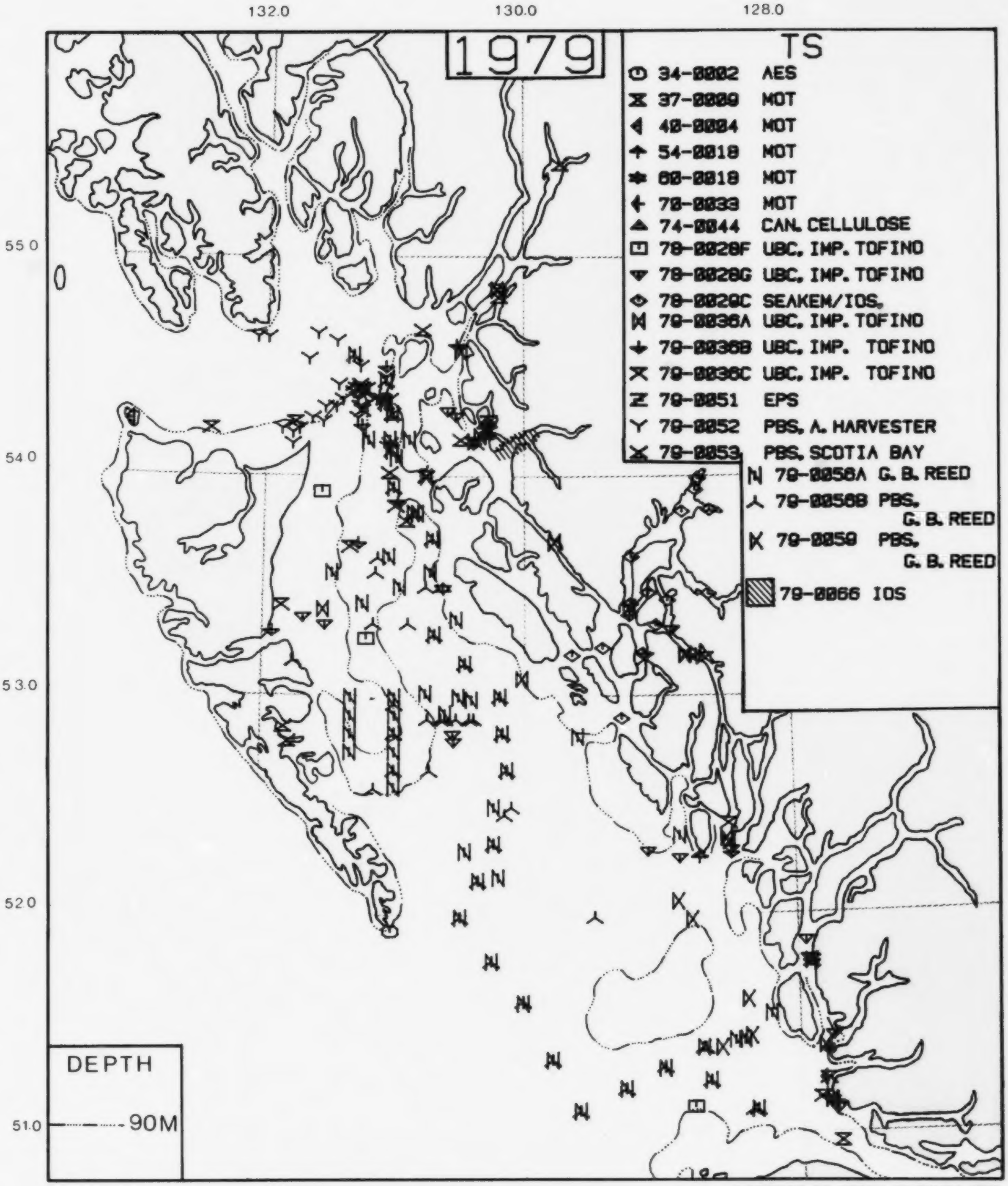
132.0
130.0
128.0
1979
TS
34-0002 AES
37-0009 MOT
40-0004 MOT
54-0018 MOT
60-0018 MOT
70-0033 MOT
74-0044 CAN. CELLULOSE
79-0028F UBC. IMP. TOFINO
79-0028G UBC. IMP. TOFINO
79-0029C SEAKEM/IOS.
79-0036A UBC. IMP. TOFINO
79-0036B UBC. IMP. TOFINO
79-0036C UBC. IMP. TOFINO
79-0051 EPS
79-0052 PBS. A. HARVESTER
79-0053 PBS. SCOTIA BAY
79-0056A G. B. REED
79-0056B PBS. G. B. REED
79-0059 PBS. G. B. REED
▨ 79-0066 IOS
55.0
54.0
53.0
52.0
51.0
DEPTH
90M

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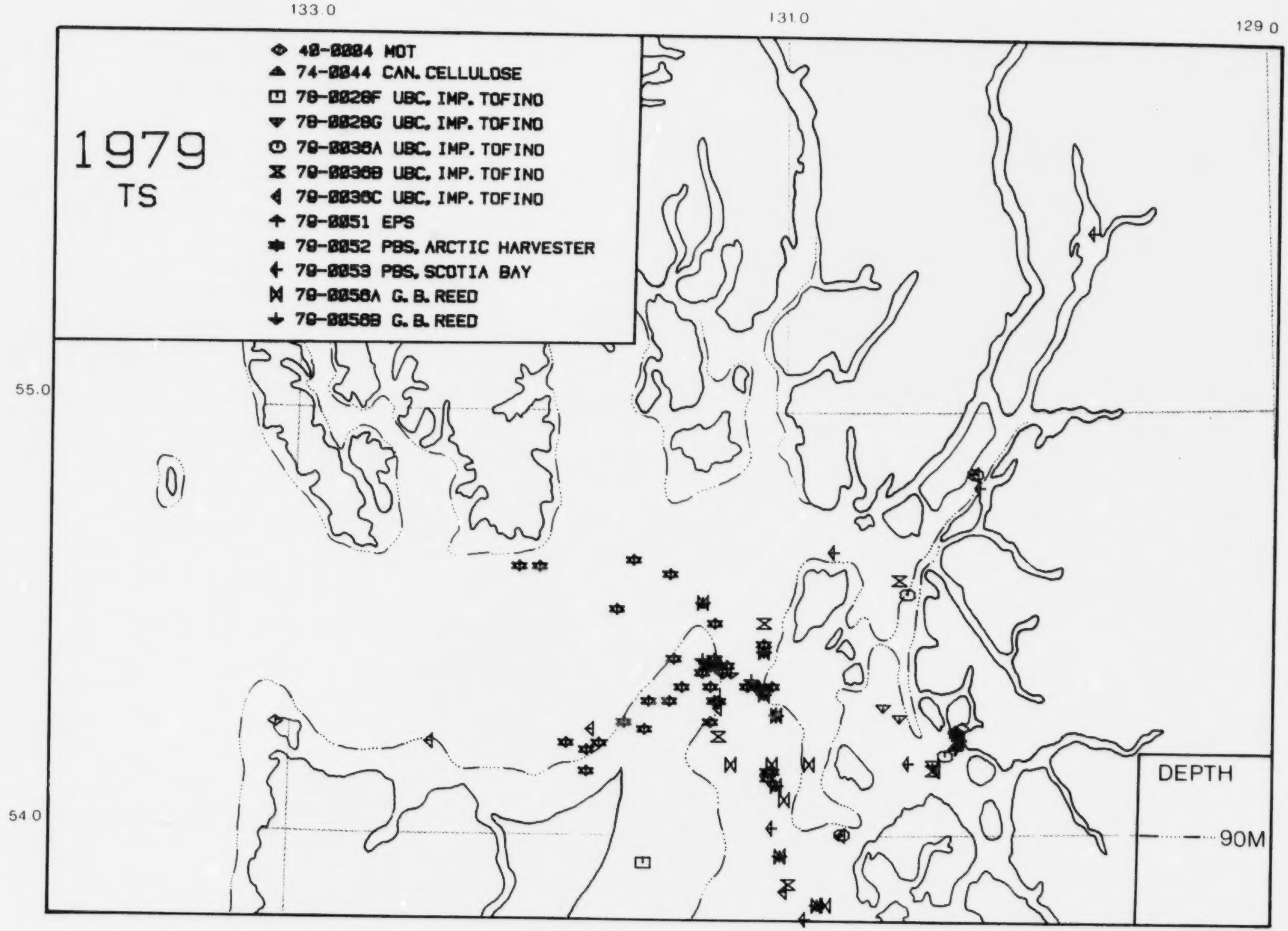
133.0
131.0
129.0
55.0
54.0
1979
TS
◆ 40-0004 MOT
▲ 74-0044 CAN. CELLULOSE
⊡ 79-0028F UBC, IMP. TOFINO
▼ 79-0028G UBC, IMP. TOFINO
ʘ 79-0038A UBC, IMP. TOFINO
⧗ 79-0038B UBC, IMP. TOFINO
◀ 79-0038C UBC, IMP. TOFINO
↑ 79-0051 EPS
✱ 79-0052 PBS, ARCTIC HARVESTER
← 79-0053 PBS, SCOTIA BAY
⋈ 79-0058A G. B. REED
↓ 79-0058B G. B. REED
DEPTH
90M

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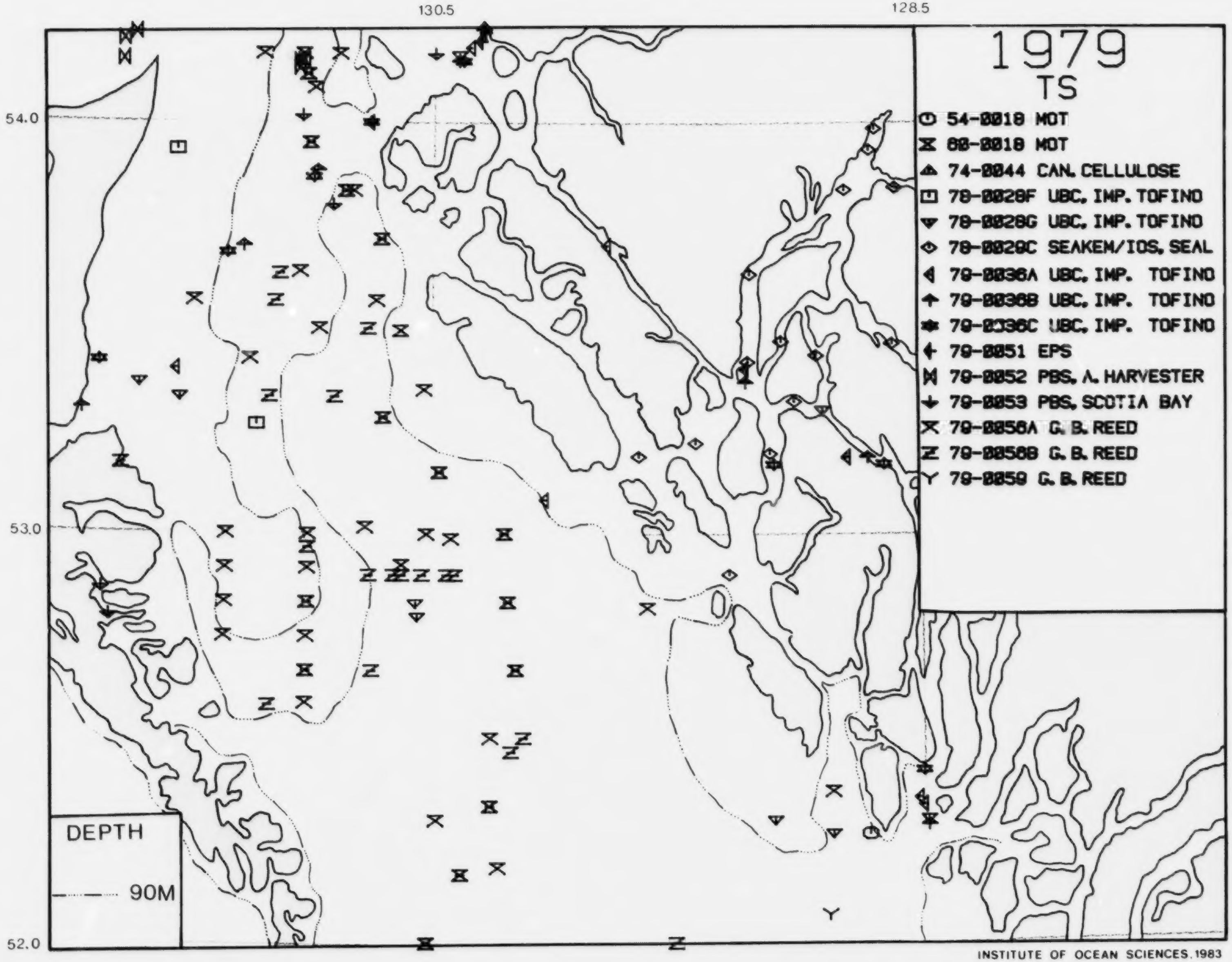
1979
TS
54-0018 MOT
60-0018 MOT
74-0044 CAN. CELLULOSE
79-0028F UBC, IMP. TOFINO
79-0028G UBC, IMP. TOFINO
79-0028C SEAKEM/IOS, SEAL
79-0036A UBC, IMP. TOFINO
79-0036B UBC, IMP. TOFINO
79-0036C UBC, IMP. TOFINO
79-0051 EPS
79-0052 PBS, A. HARVESTER
79-0053 PBS, SCOTIA BAY
79-0056A G. B. REED
79-0056B G. B. REED
79-0059 G. B. REED
DEPTH
90M
130.5
128.5
54.0
53.0
52.0

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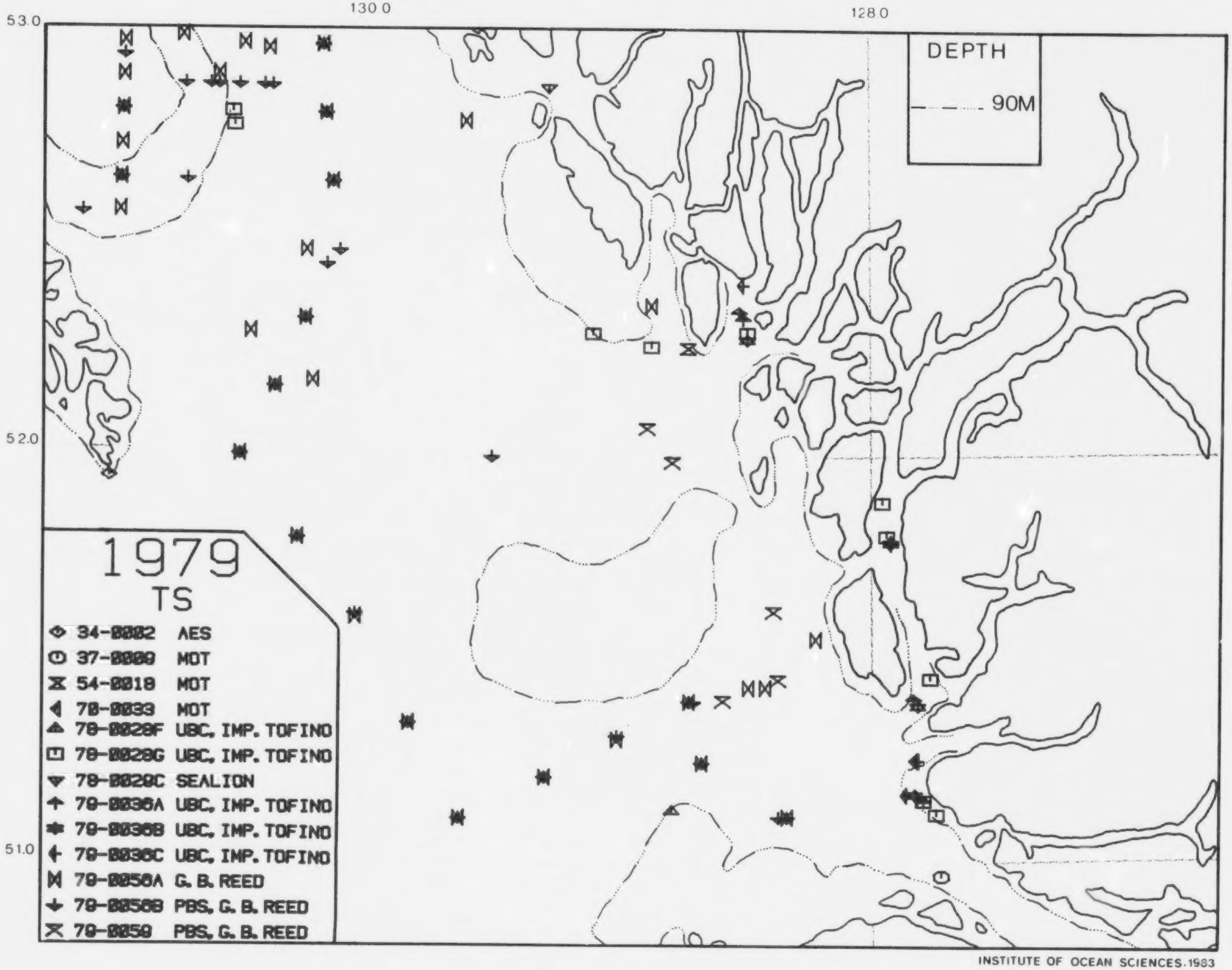
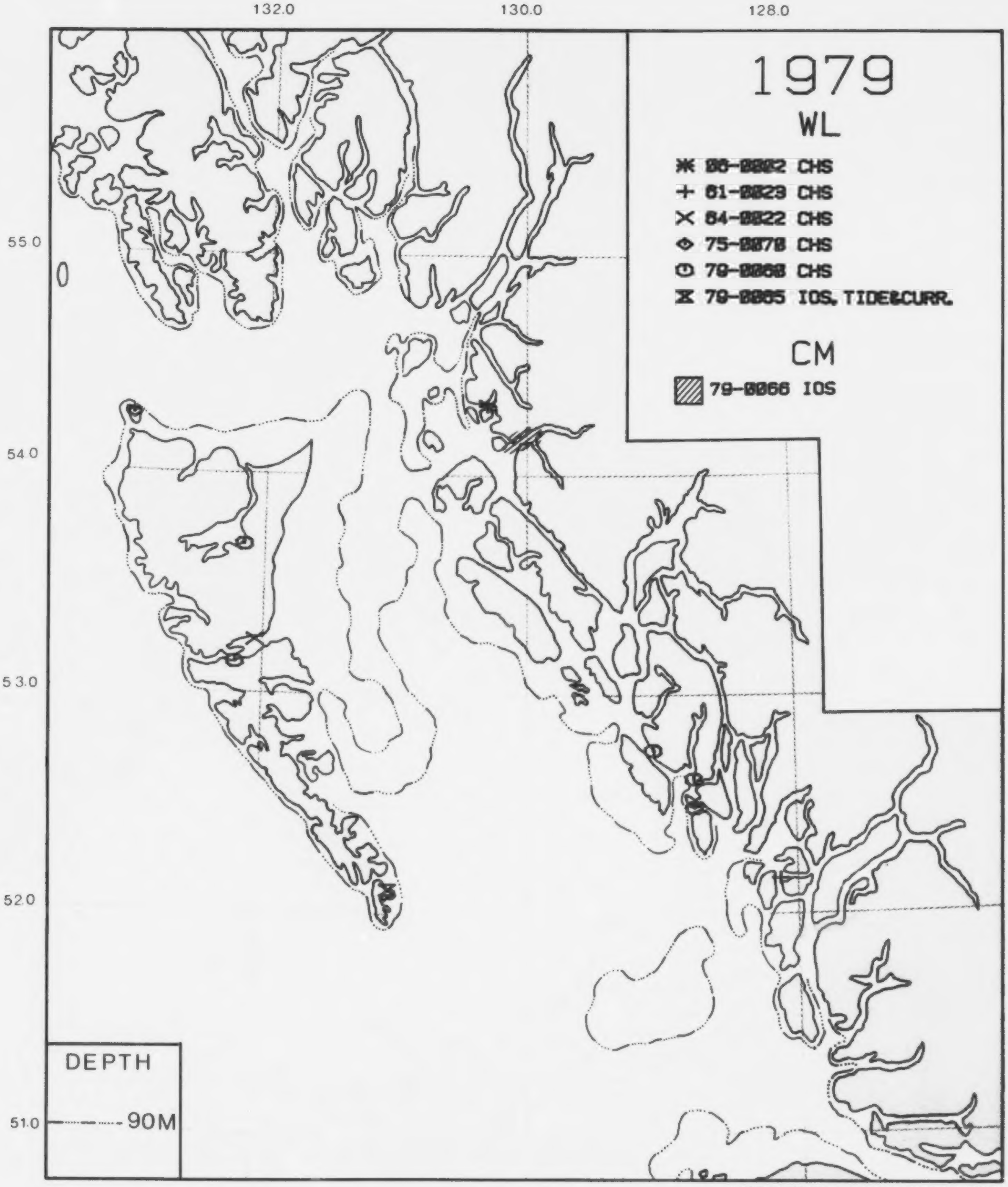

53.0
52.0
51.0
130.0
128.0
DEPTH
90M
1979
TS
◇ 34-0002 AES
⊙ 37-0009 MOT
⧗ 54-0018 MOT
◀ 70-0033 MOT
▲ 79-0028F UBC, IMP. TOFINO
⊡ 79-0028G UBC, IMP. TOFINO
▼ 79-0028C SEALION
↑ 79-0036A UBC, IMP. TOFINO
✱ 79-0036B UBC, IMP. TOFINO
← 79-0036C UBC, IMP. TOFINO
⋈ 79-0056A G. B. REED
↓ 79-0056B PBS, G. B. REED
⧖ 79-0059 PBS, G. B. REED
INSTITUTE OF OCEAN SCIENCES. 1983


132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1979
WL
✳ 08-0002 CHS
+ 61-0023 CHS
× 64-0022 CHS
◇ 75-0070 CHS
⏀ 79-0060 CHS
⧗ 79-0065 IOS, TIDE&CURR.
CM
▨ 79-0066 IOS
DEPTH
90M

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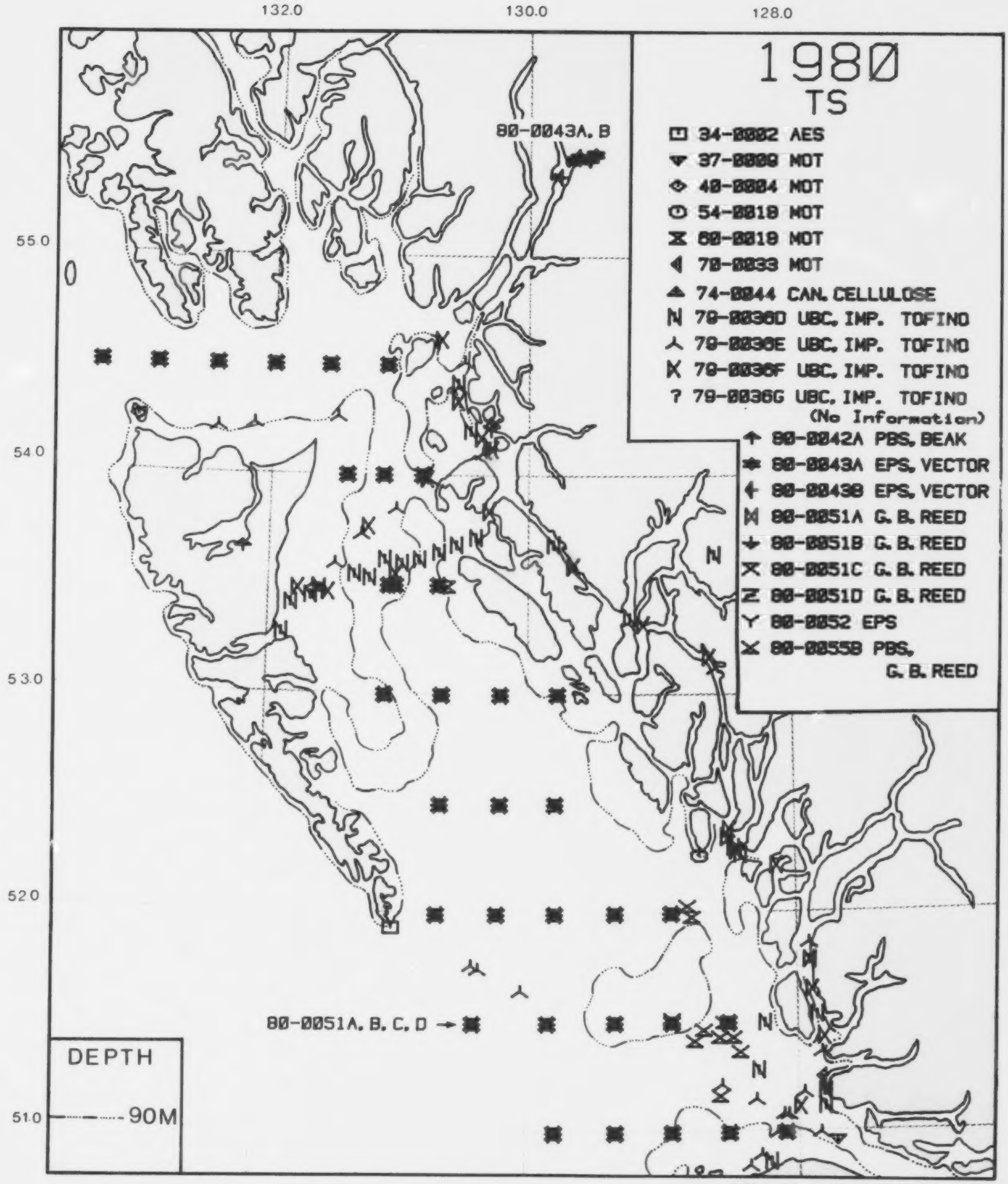
132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1980
TS
□ 34-0002 AES
▼ 37-0009 MOT
◇ 40-0004 MOT
○ 54-0018 MOT
⧗ 60-0019 MOT
◀ 70-0033 MOT
▲ 74-0044 CAN. CELLULOSE
N 79-0036D UBC, IMP. TOFINO
⅄ 79-0036E UBC, IMP. TOFINO
K 79-0036F UBC, IMP. TOFINO
? 79-0036G UBC, IMP. TOFINO
(No Information)
↑ 80-0042A PBS, BEAK
✱ 80-0043A EPS, VECTOR
↞ 80-0043B EPS, VECTOR
⋈ 80-0051A G. B. REED
↓ 80-0051B G. B. REED
⌆ 80-0051C G. B. REED
Ƶ 80-0051D G. B. REED
Y 80-0052 EPS
✕ 80-0055B PBS, G. B. REED
80-0043A, B
80-0051A, B, C, D →
DEPTH
-90M

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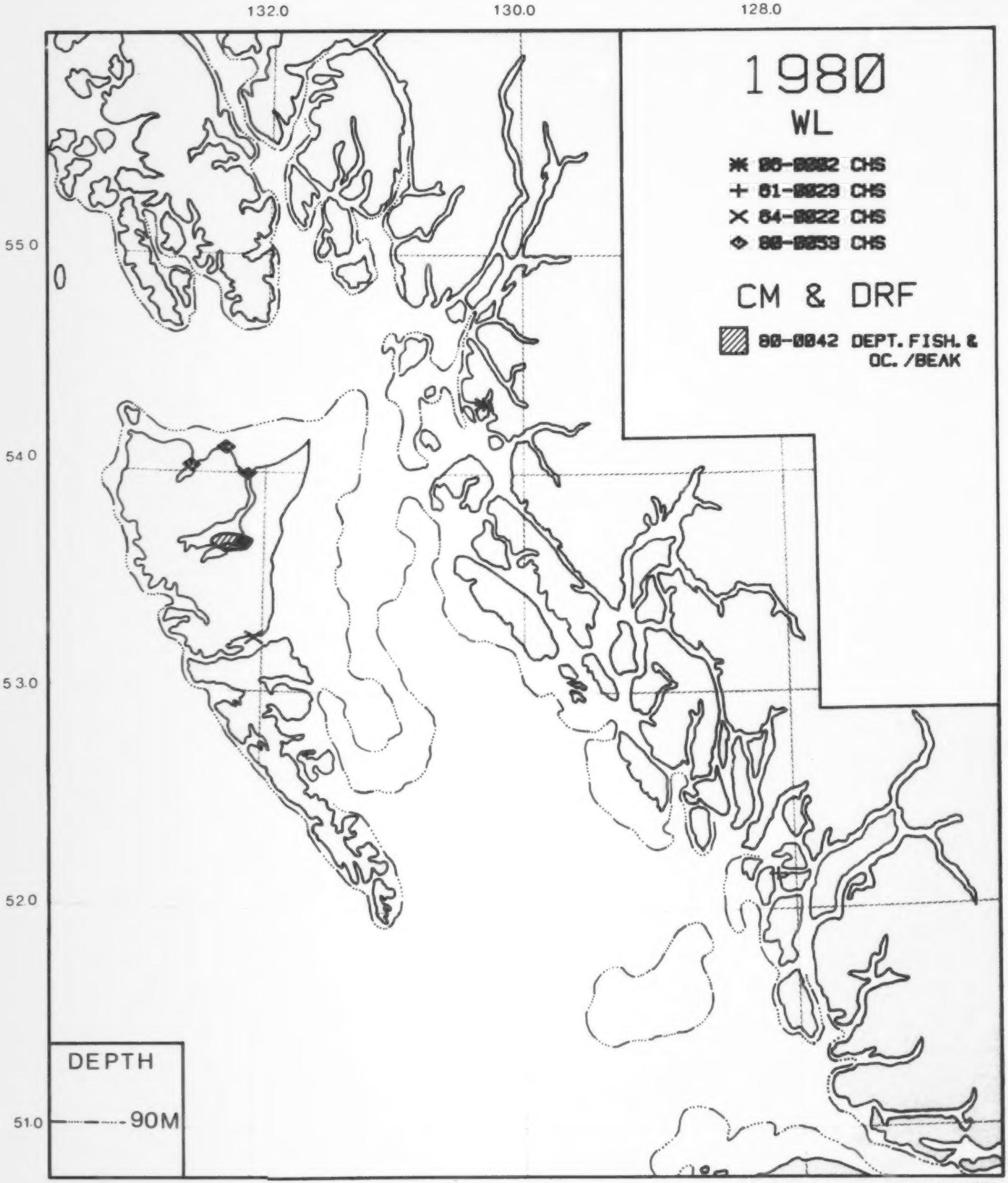
132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1980
WL
✳ 80-0002 CHS
+ 81-0023 CHS
× 64-0022 CHS
◇ 80-0053 CHS
CM & DRF
▨ 80-0042 DEPT. FISH. & OC. /BEAK
DEPTH
90M

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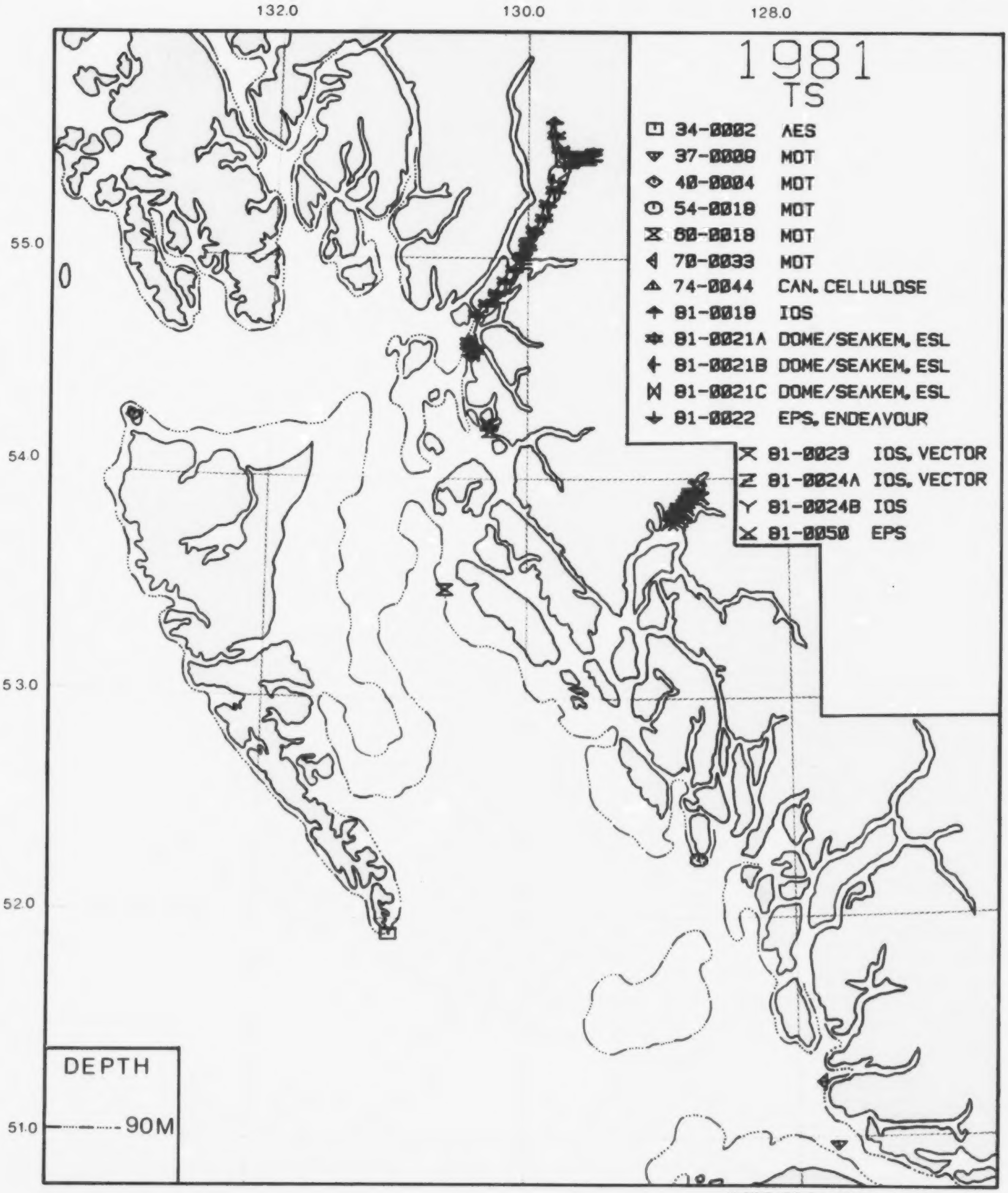
132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1981
TS
34-0002 AES
37-0008 MOT
40-0004 MOT
54-0018 MOT
60-0018 MOT
70-0033 MOT
74-0044 CAN. CELLULOSE
81-0018 IOS
81-0021A DOME/SEAKEM, ESL
81-0021B DOME/SEAKEM, ESL
81-0021C DOME/SEAKEM, ESL
81-0022 EPS, ENDEAVOUR
81-0023 IOS, VECTOR
81-0024A IOS, VECTOR
81-0024B IOS
81-0050 EPS
DEPTH
90M

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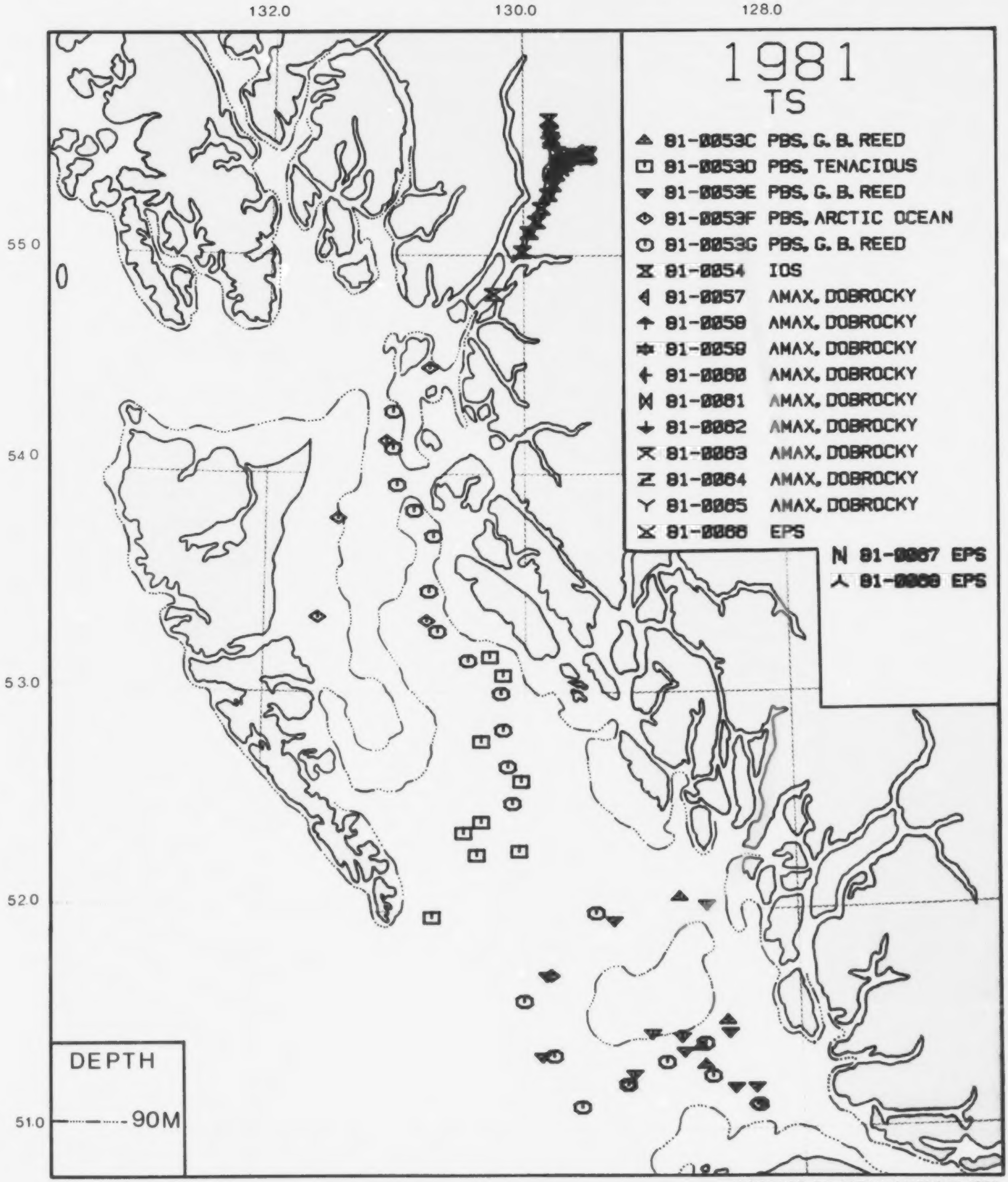
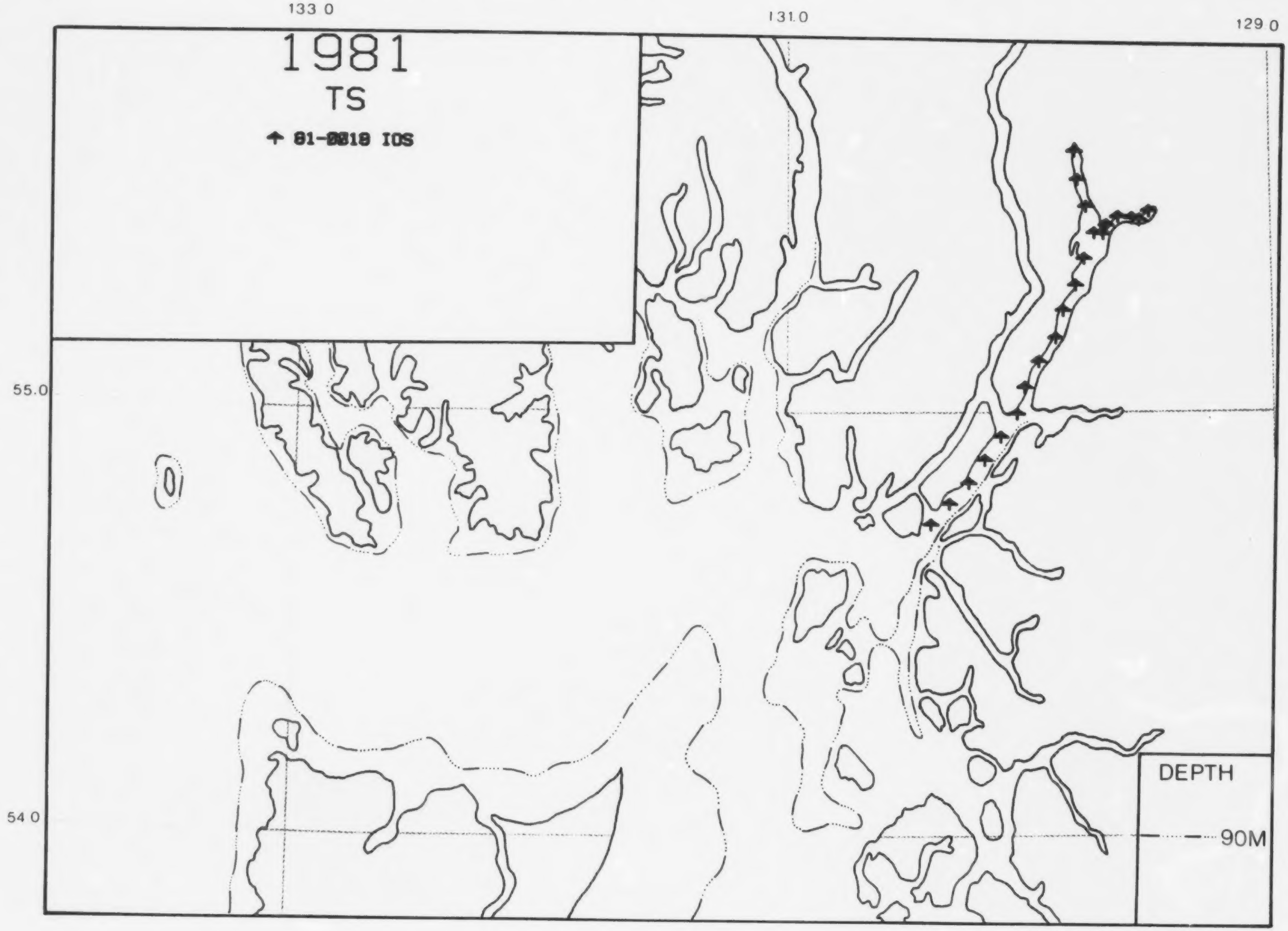

132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1981
TS
81-0053C PBS, G. B. REED
81-0053D PBS, TENACIOUS
81-0053E PBS, G. B. REED
81-0053F PBS, ARCTIC OCEAN
81-0053G PBS, G. B. REED
81-0054 IOS
81-0057 AMAX, DOBROCKY
81-0058 AMAX, DOBROCKY
81-0059 AMAX, DOBROCKY
81-0060 AMAX, DOBROCKY
81-0061 AMAX, DOBROCKY
81-0062 AMAX, DOBROCKY
81-0063 AMAX, DOBROCKY
81-0064 AMAX, DOBROCKY
81-0065 AMAX, DOBROCKY
81-0066 EPS
81-0067 EPS
81-0068 EPS
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983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131.0
129 0
55.0
54 0
1981
TS
← 81-0019 IOS
DEPTH
90M

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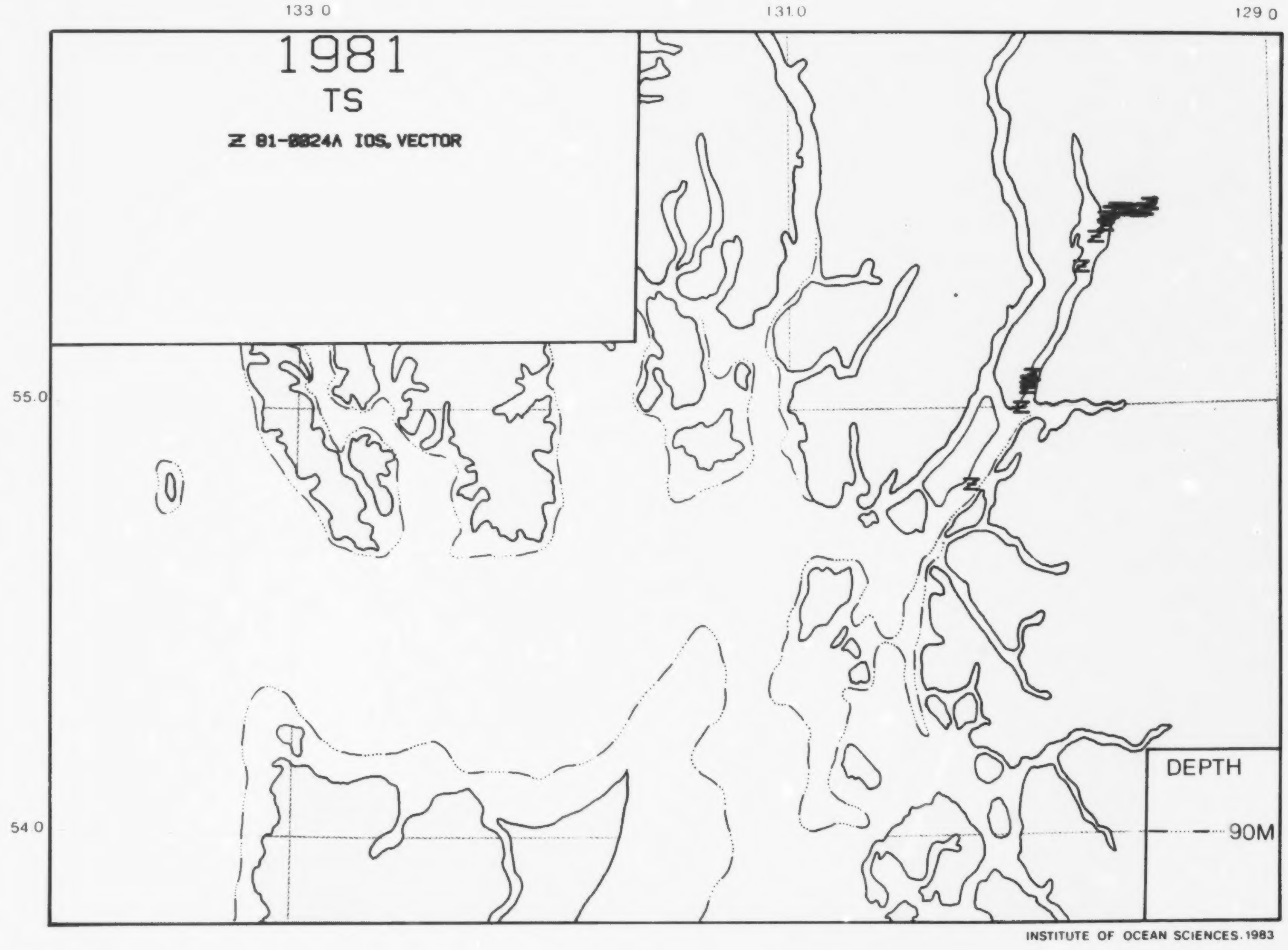
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129 0
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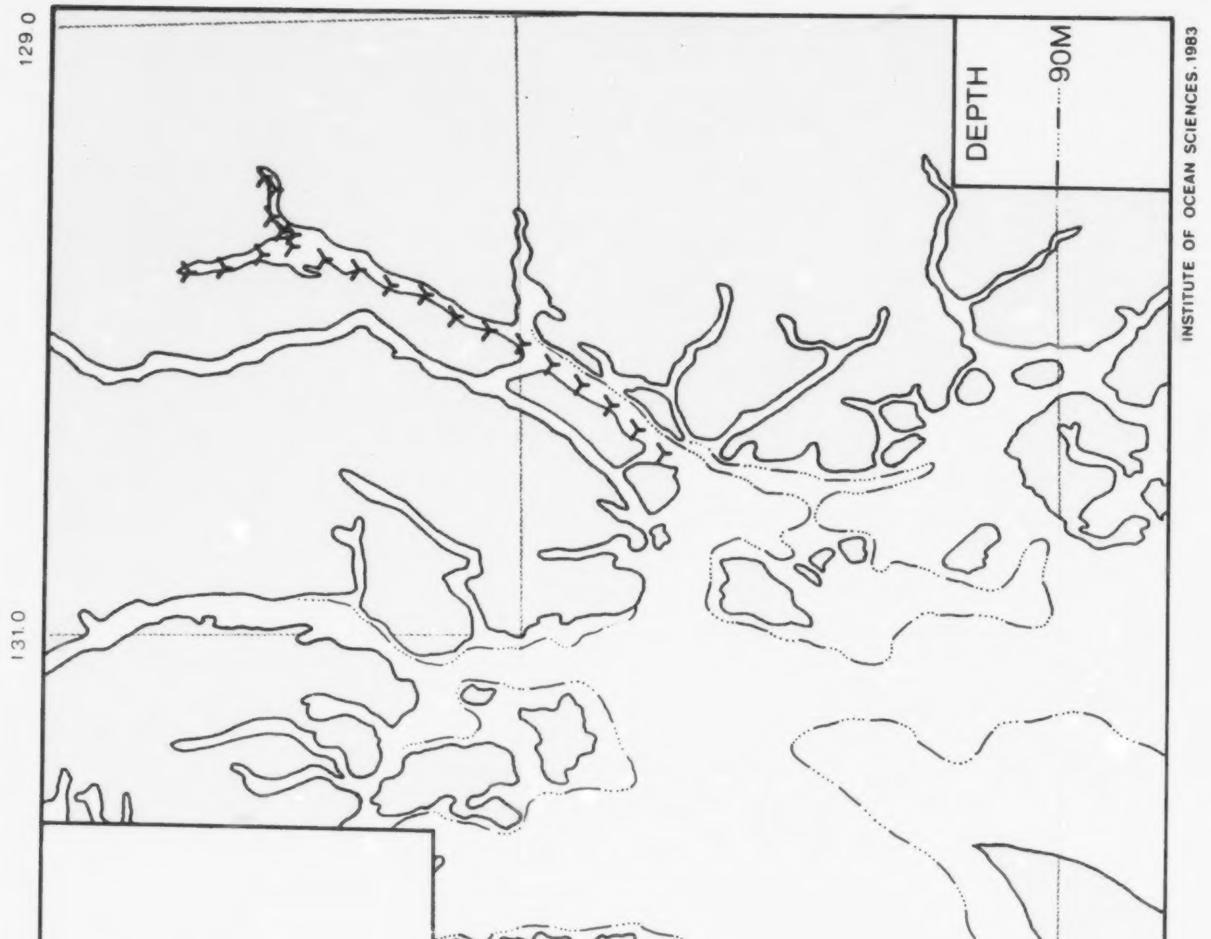
54 0
1981
TS
Z 81-0024A IOS, VECTOR
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES. 1983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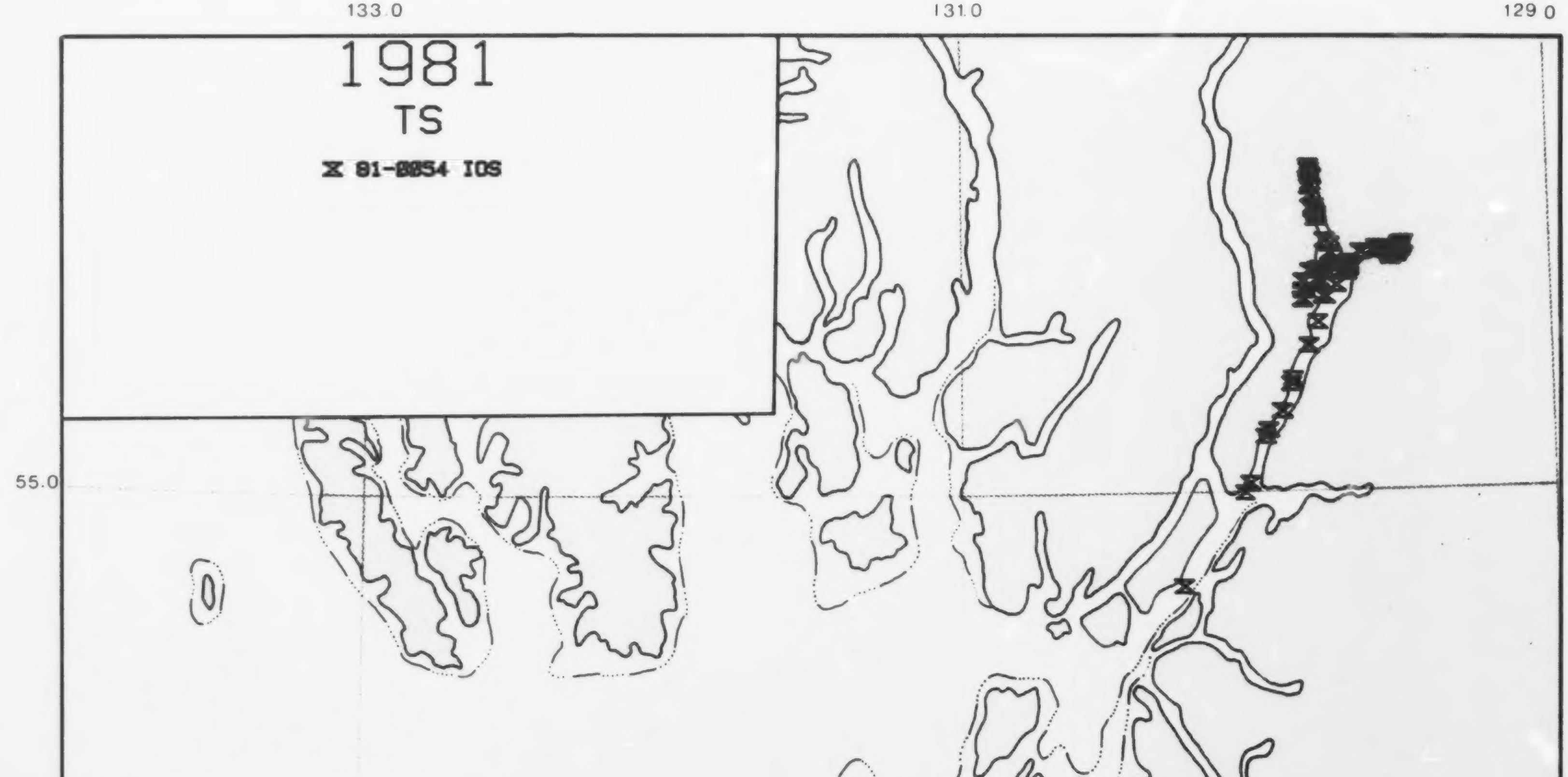
131.0
133.0
55.0
54.0
1981
TS
Y 81-0024B IOS
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES.1983


1981
TS
X 81-0054 IOS
DEPTH
90M
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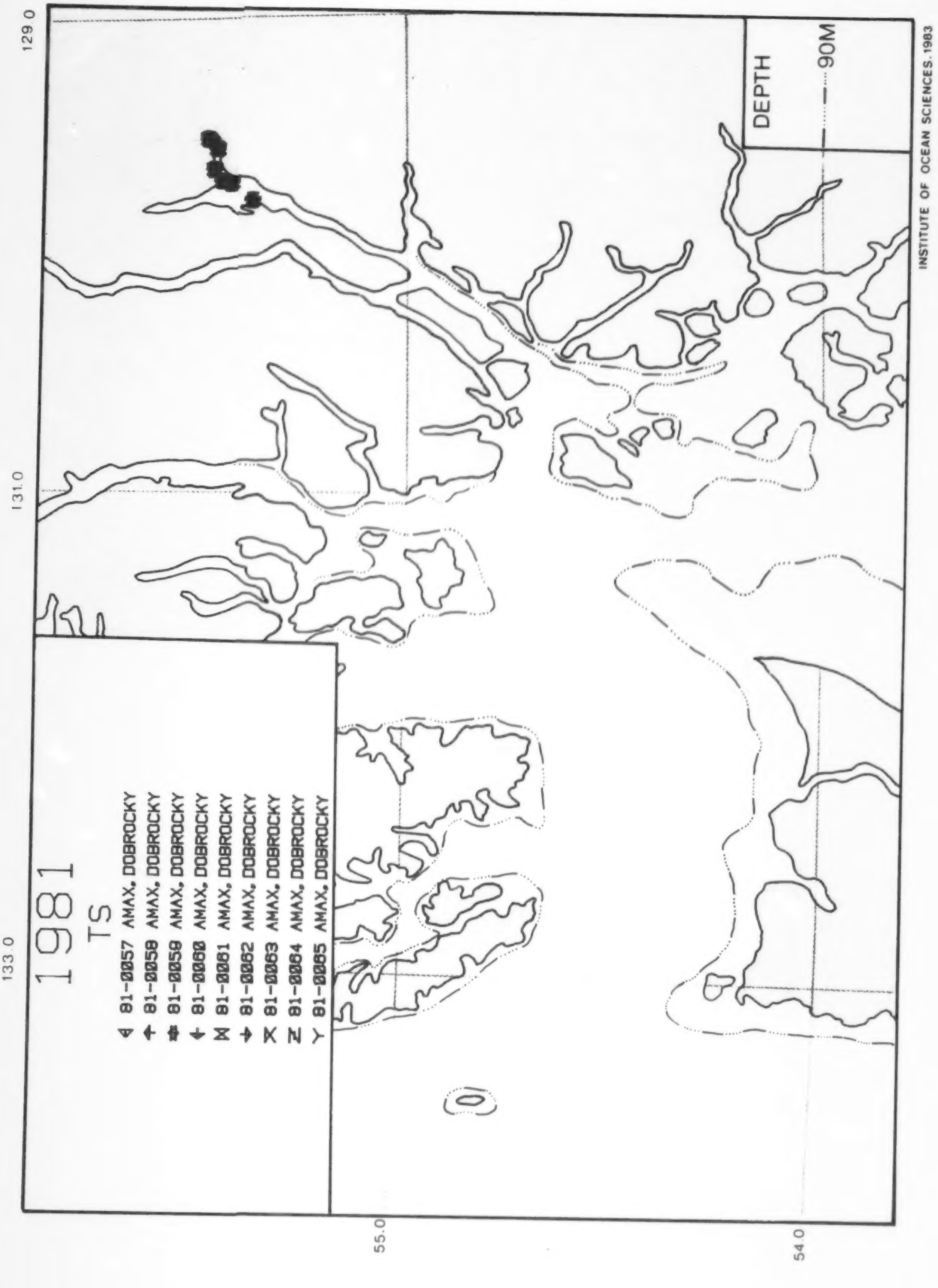
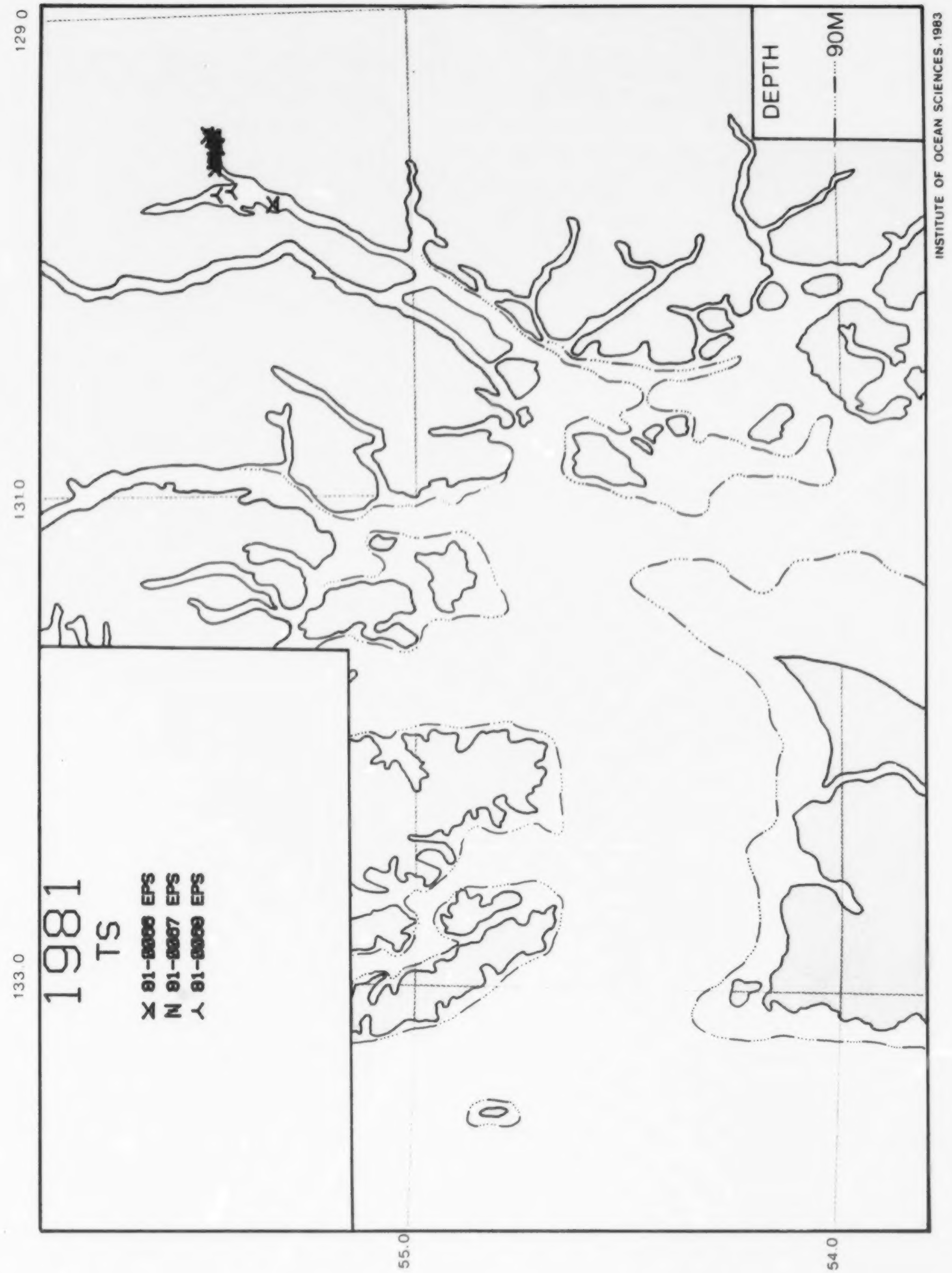
131.0
129.0
55.0
54.0

INSTITUTE OF OCEAN SCIENCES.1983


1981
TS
◁ 81-0057 AMAX, DOBROCKY
↑ 81-0058 AMAX, DOBROCKY
# 81-0059 AMAX, DOBROCKY
↓ 81-0060 AMAX, DOBROCKY
⋈ 81-0061 AMAX, DOBROCKY
→ 81-0062 AMAX, DOBROCKY
X 81-0063 AMAX, DOBROCKY
Z 81-0064 AMAX, DOBROCKY
Y 81-0065 AMAX, DOBROCKY
133.0
131.0
129.0
55.0
54.0
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES, 1983


129.0
131.0
133.0
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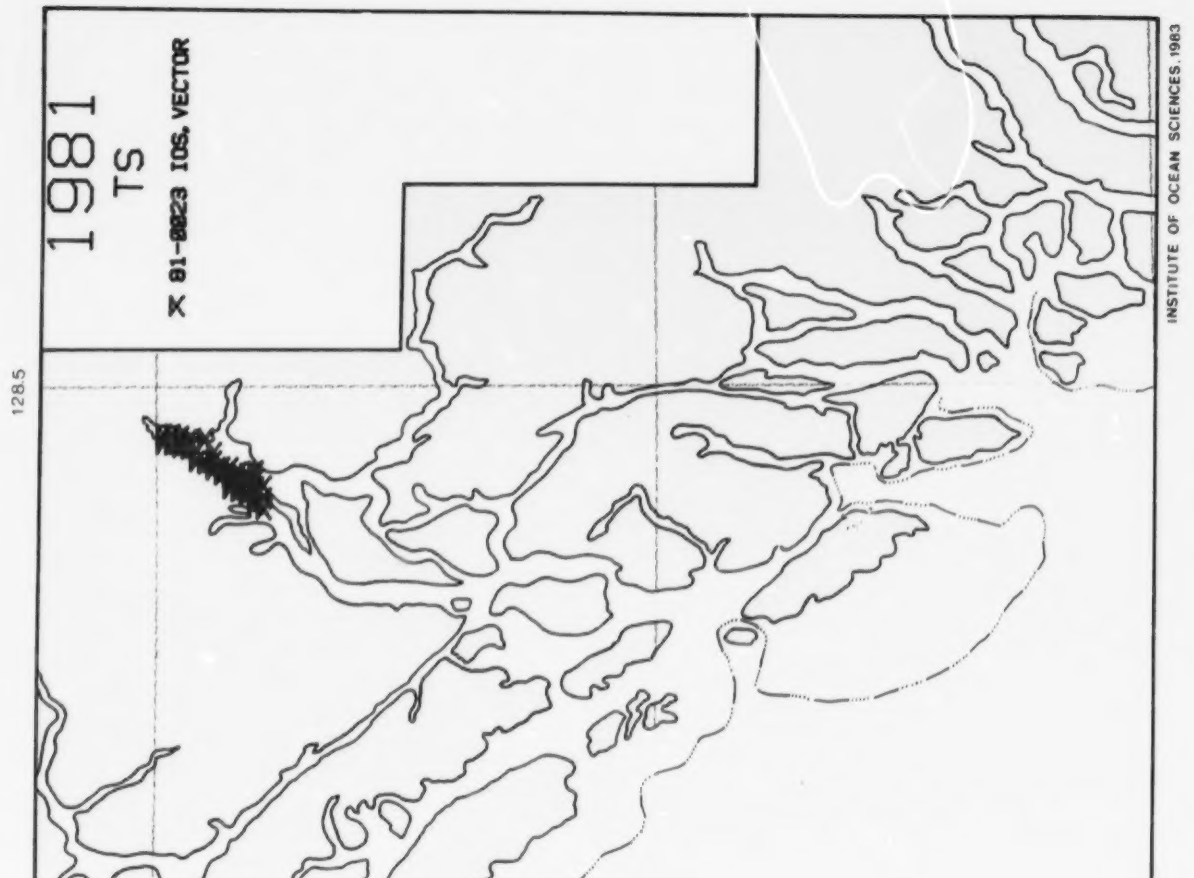
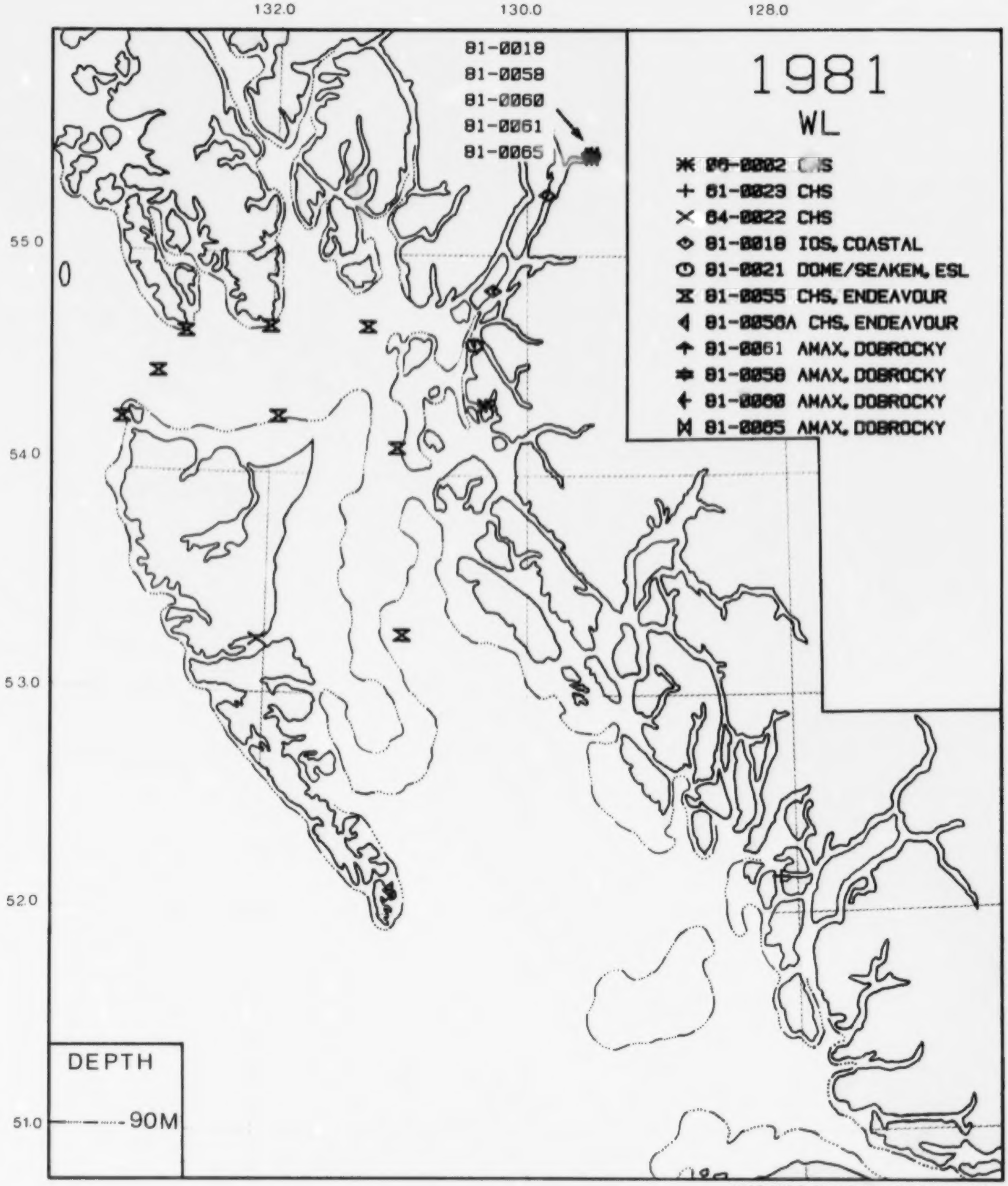
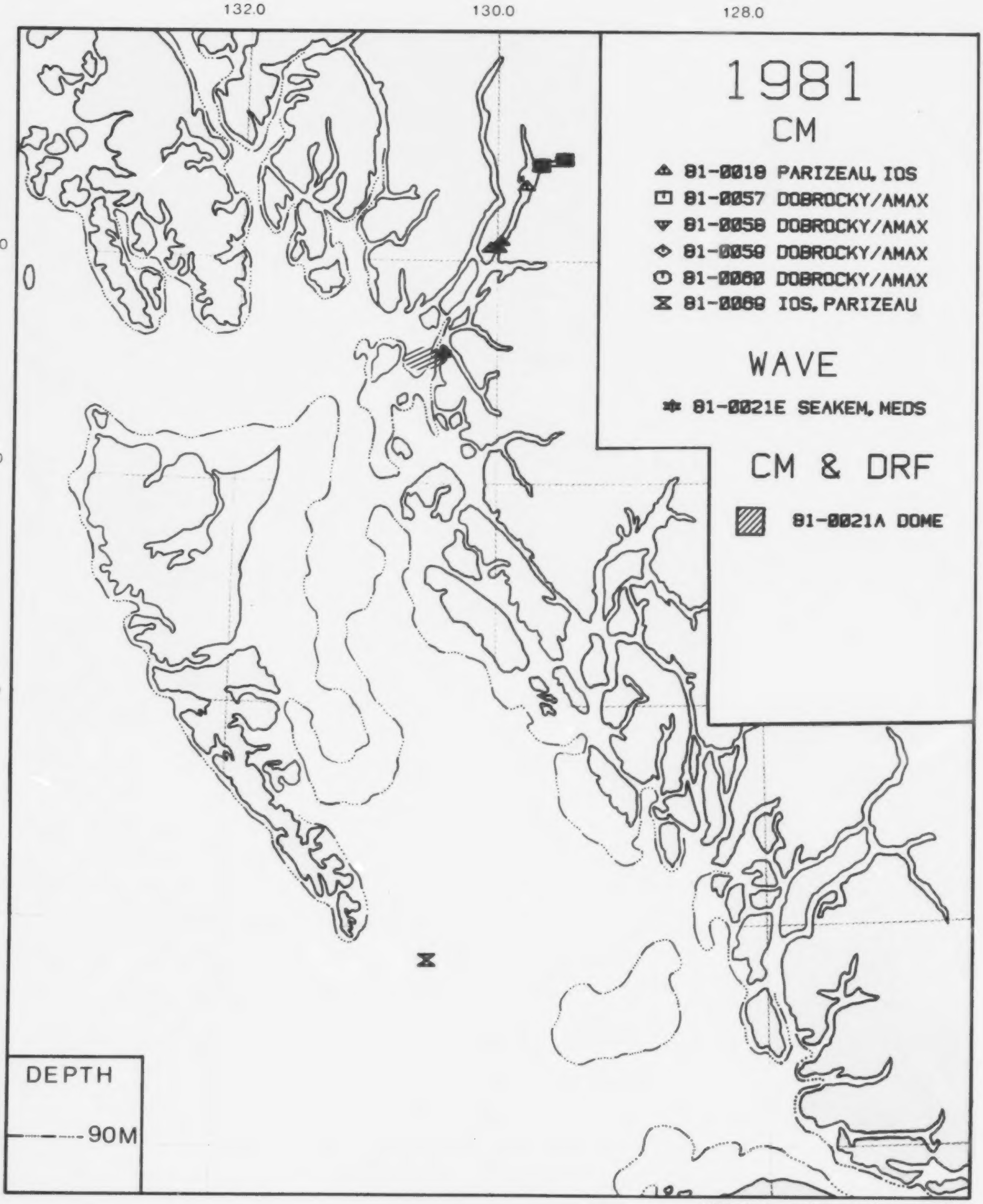
54.0
1981
TS
X 81-0066 EPS
N 81-0067 EPS
Y 81-0069 EPS
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES.1983


1981
TS
81-0823 IOS, VECTOR
128.5
130.5
54.0
53.0
52.0
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES, 1983


132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
81-0018
81-0058
81-0060
81-0061
81-0065
1981
WL
✱ 00-0002 CHS
+ 81-0023 CHS
× 84-0022 CHS
◇ 81-0018 IOS, COASTAL
⏻ 81-0021 DOME/SEAKEM, ESL
⧗ 81-0055 CHS, ENDEAVOUR
◀ 81-0056A CHS, ENDEAVOUR
↑ 81-0061 AMAX, DOBROCKY
⇹ 81-0058 AMAX, DOBROCKY
← 81-0060 AMAX, DOBROCKY
⋈ 81-0065 AMAX, DOBROCKY
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES, 1983


132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
1981
CM
81-0018 PARIZEAU, IOS
81-0057 DOBROCKY/AMAX
81-0058 DOBROCKY/AMAX
81-0059 DOBROCKY/AMAX
81-0060 DOBROCKY/AMAX
81-0069 IOS, PARIZEAU
WAVE
81-0021E SEAKEM, MEDS
CM & DRF
81-0021A DOME
DEPTH
90M

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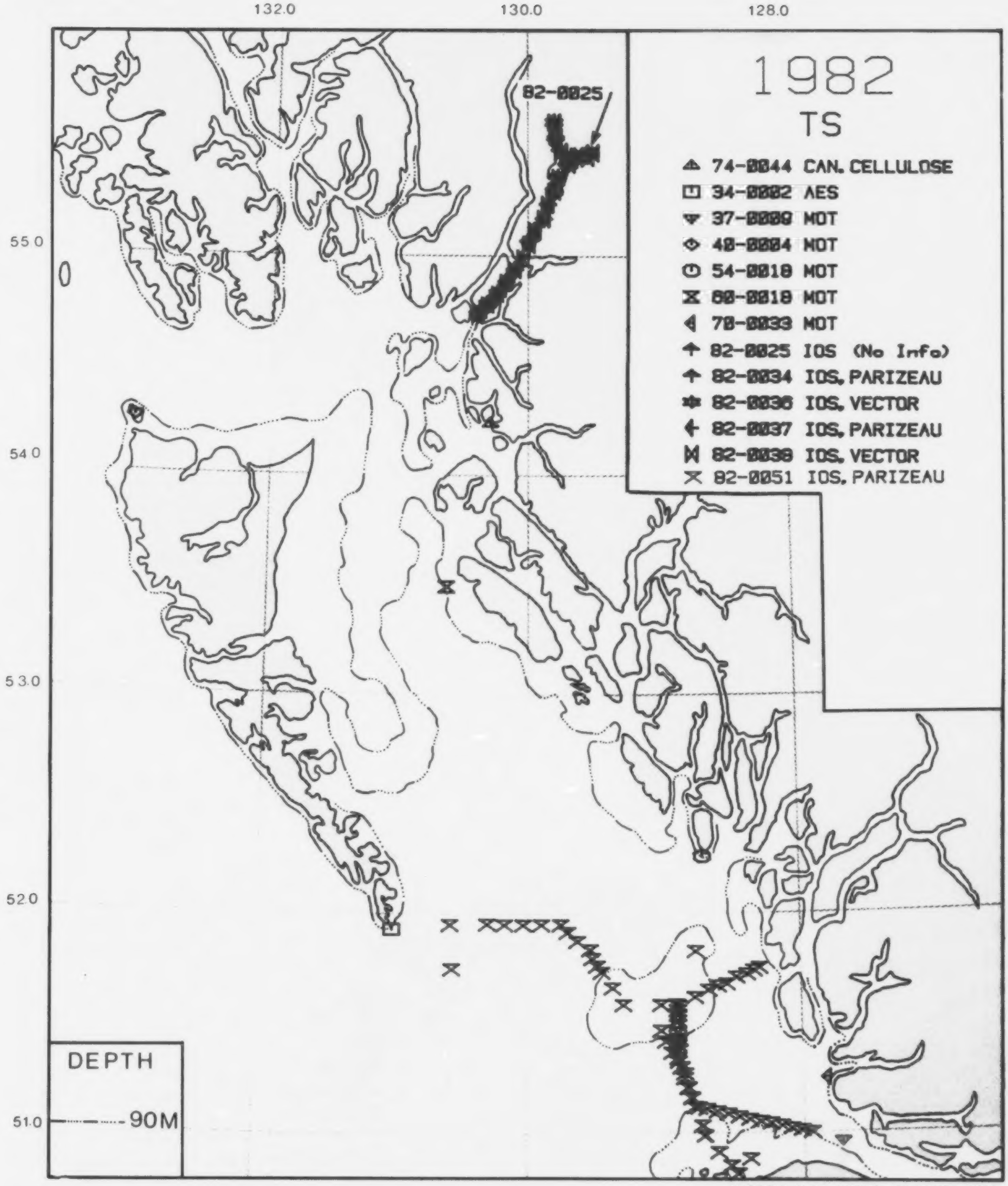
132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
82-0025
1982
TS
74-0044 CAN. CELLULOSE
34-0002 AES
37-0009 MOT
40-0004 MOT
54-0018 MOT
60-0018 MOT
70-0033 MOT
82-0025 IOS (No Info)
82-0034 IOS. PARIZEAU
82-0036 IOS. VECTOR
82-0037 IOS. PARIZEAU
82-0038 IOS. VECTOR
82-0051 IOS. PARIZEAU
DEPTH
90M

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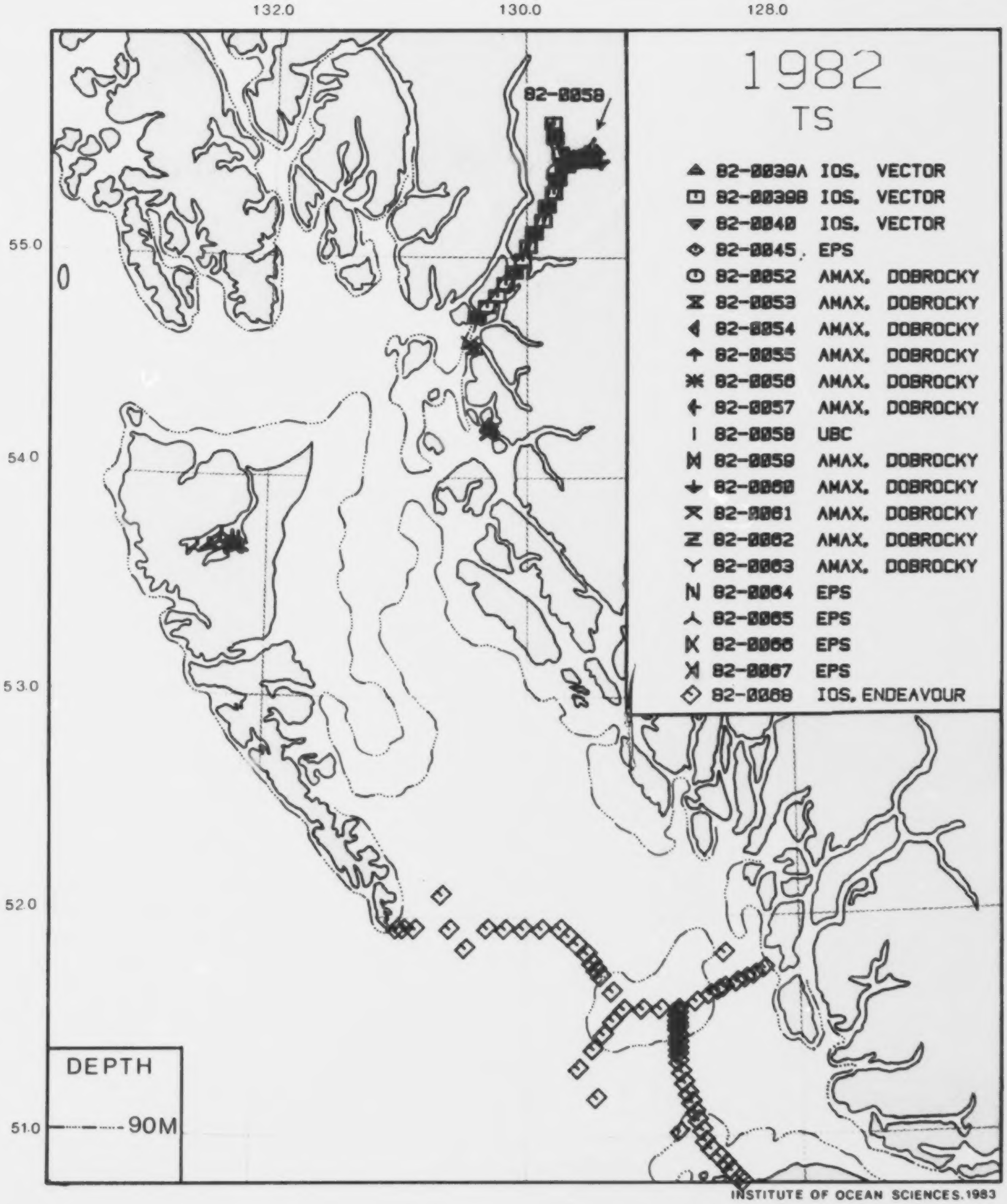
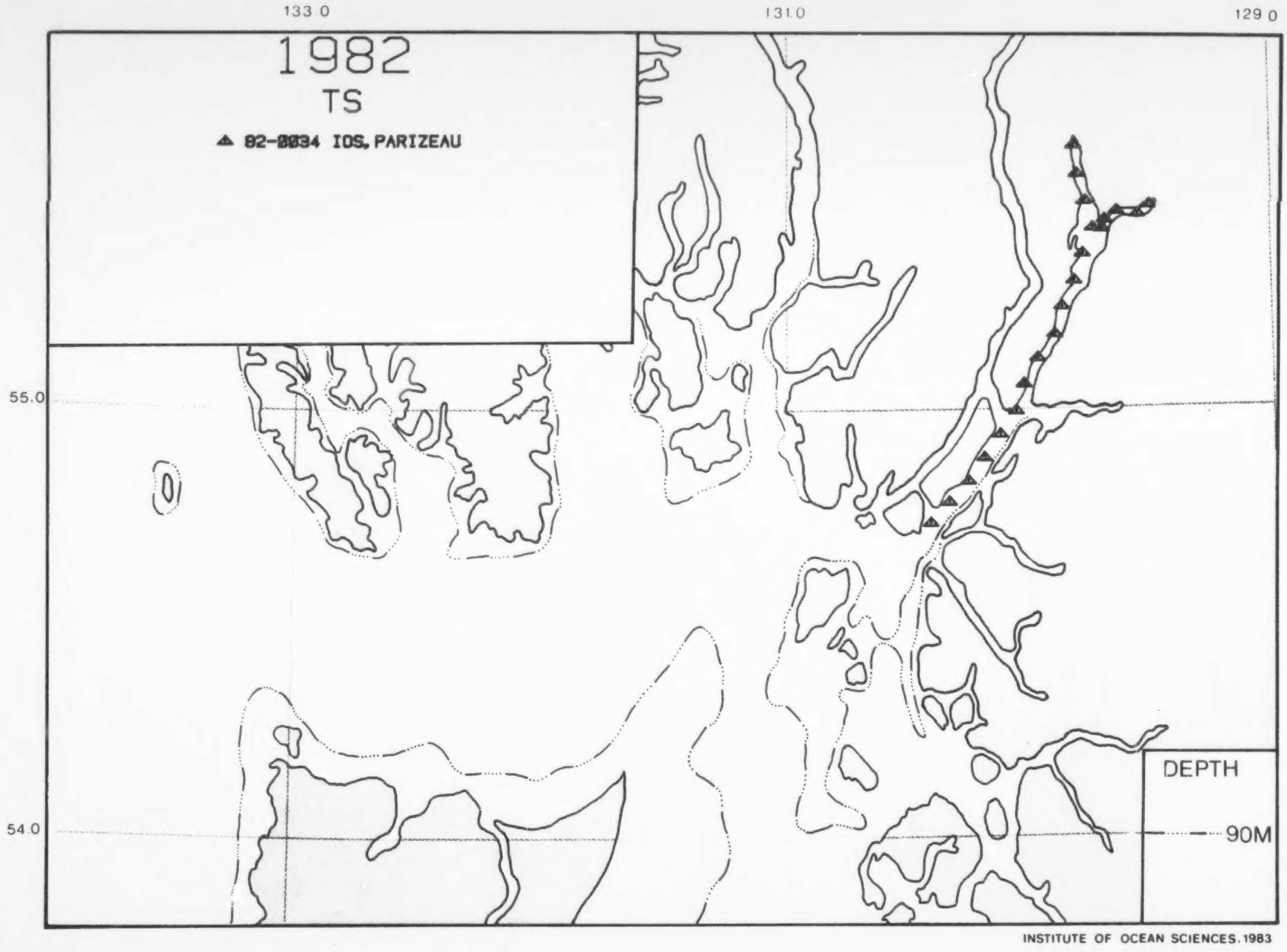
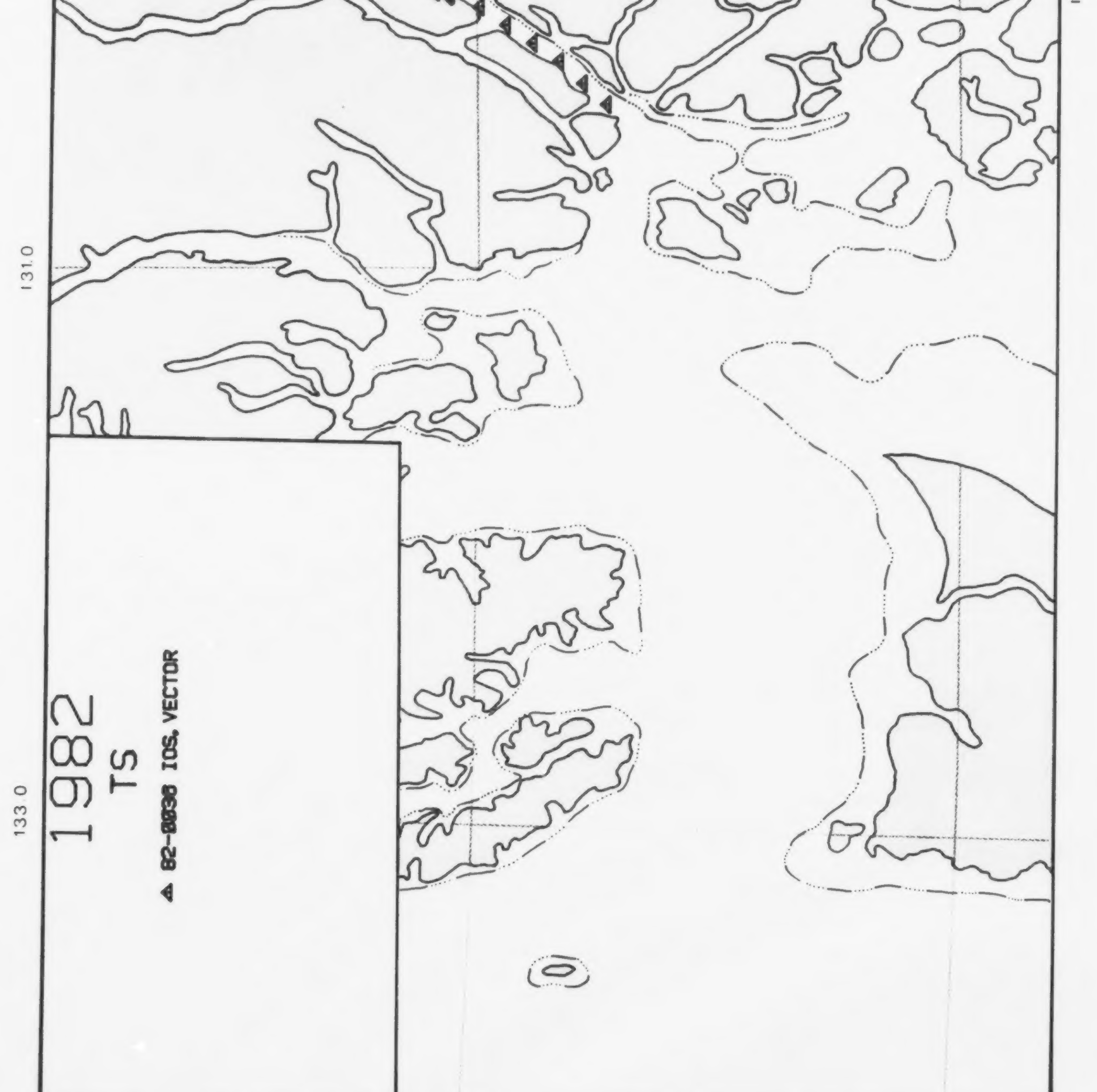
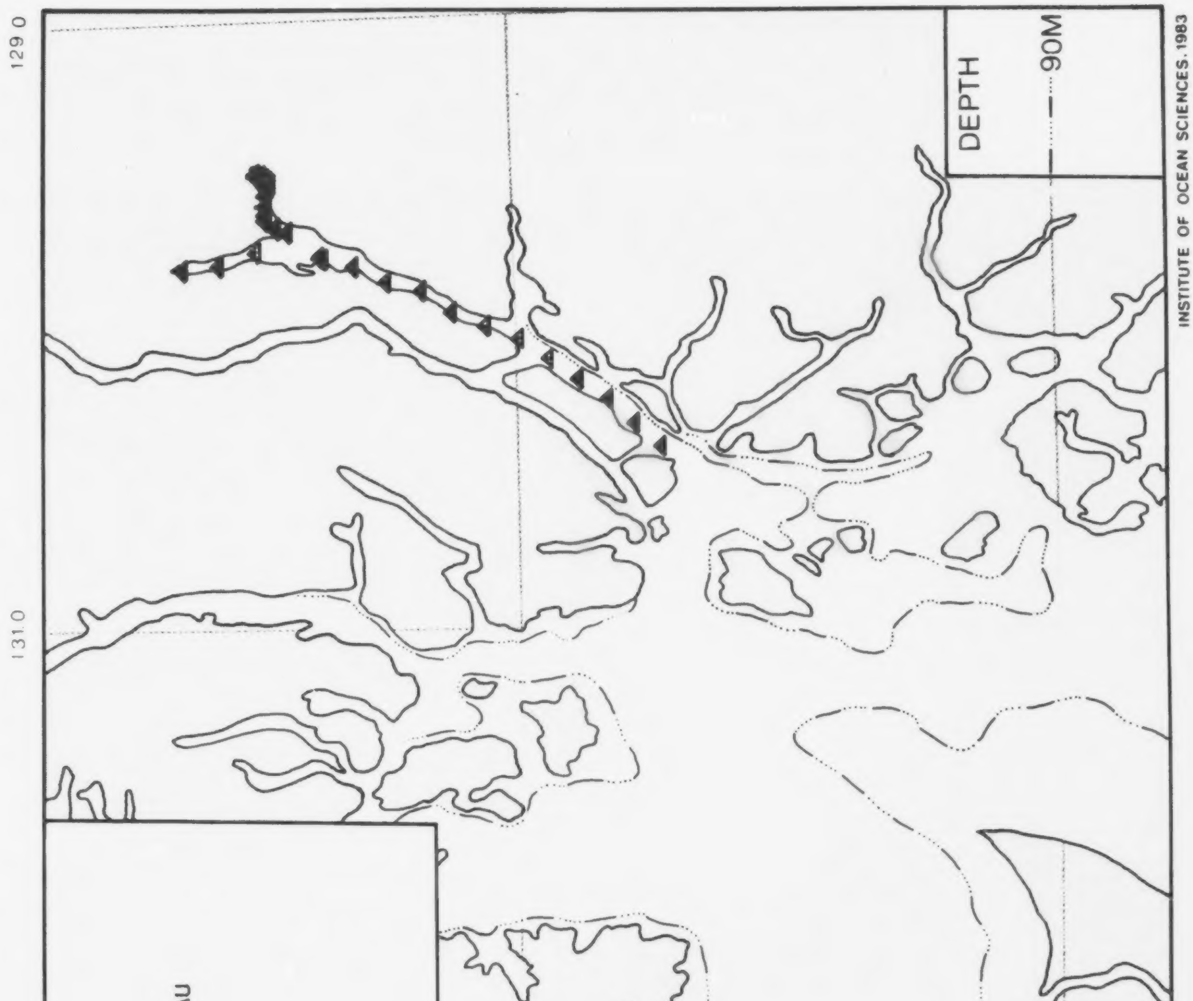
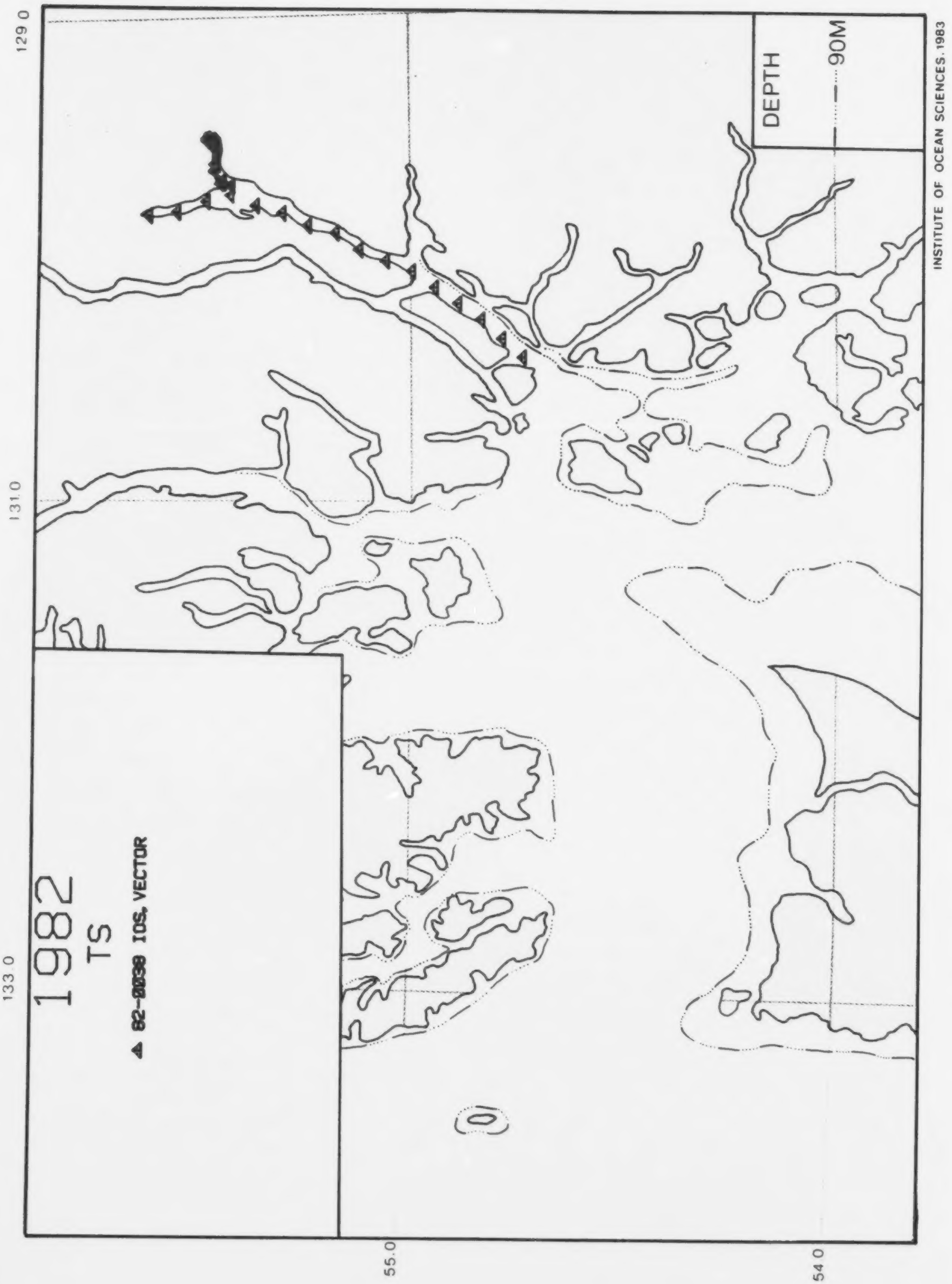

132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
82-0058
1982
TS
▲ 82-0039A IOS. VECTOR
82-0039B IOS. VECTOR
▼ 82-0040 IOS. VECTOR
82-0045 EPS
82-0052 AMAX. DOBROCKY
82-0053 AMAX. DOBROCKY
82-0054 AMAX. DOBROCKY
82-0055 AMAX. DOBROCKY
82-0056 AMAX. DOBROCKY
82-0057 AMAX. DOBROCKY
I 82-0058 UBC
82-0059 AMAX. DOBROCKY
82-0060 AMAX. DOBROCKY
82-0061 AMAX. DOBROCKY
82-0062 AMAX. DOBROCKY
Y 82-0063 AMAX. DOBROCKY
N 82-0064 EPS
82-0065 EPS
K 82-0066 EPS
82-0067 EPS
◇ 82-0068 IOS. ENDEAVOUR
DEPTH
90M

INSTITUTE OF OCEAN SCIENCES.1983


133.0
131.0
129.0
55.0
54.0
1982
TS
▲ 82-0034 IOS, PARIZEAU
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES. 1983


129.0
131.0
133.0
55.0
54.0
1982
TS
△ 82-0036 IOS, VECTOR
DEPTH
90M
INSTITUTE OF OCEAN SCIENCES.1983


1982
TS
▲ 82-0037 IOS, PARIZEAU
DEPTH
90M
129 0
131 0
133 0
55.0
54.0
INSTITUTE OF OCEAN SCIENCES, 1983


129.0
131.0
133.0
55.0
54.0
1982
TS
▲ 82-0038 IOS, VECTOR
DEPTH
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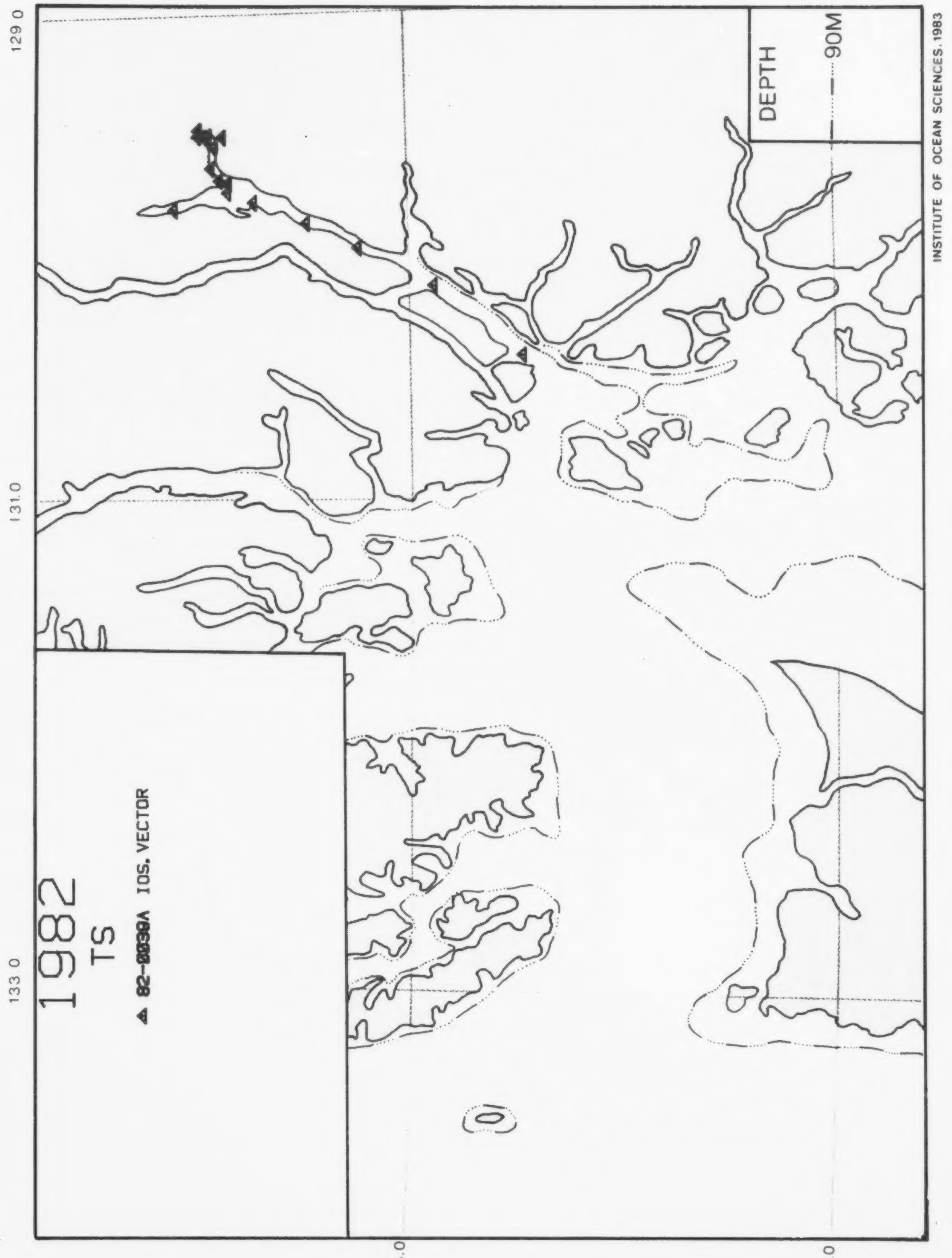
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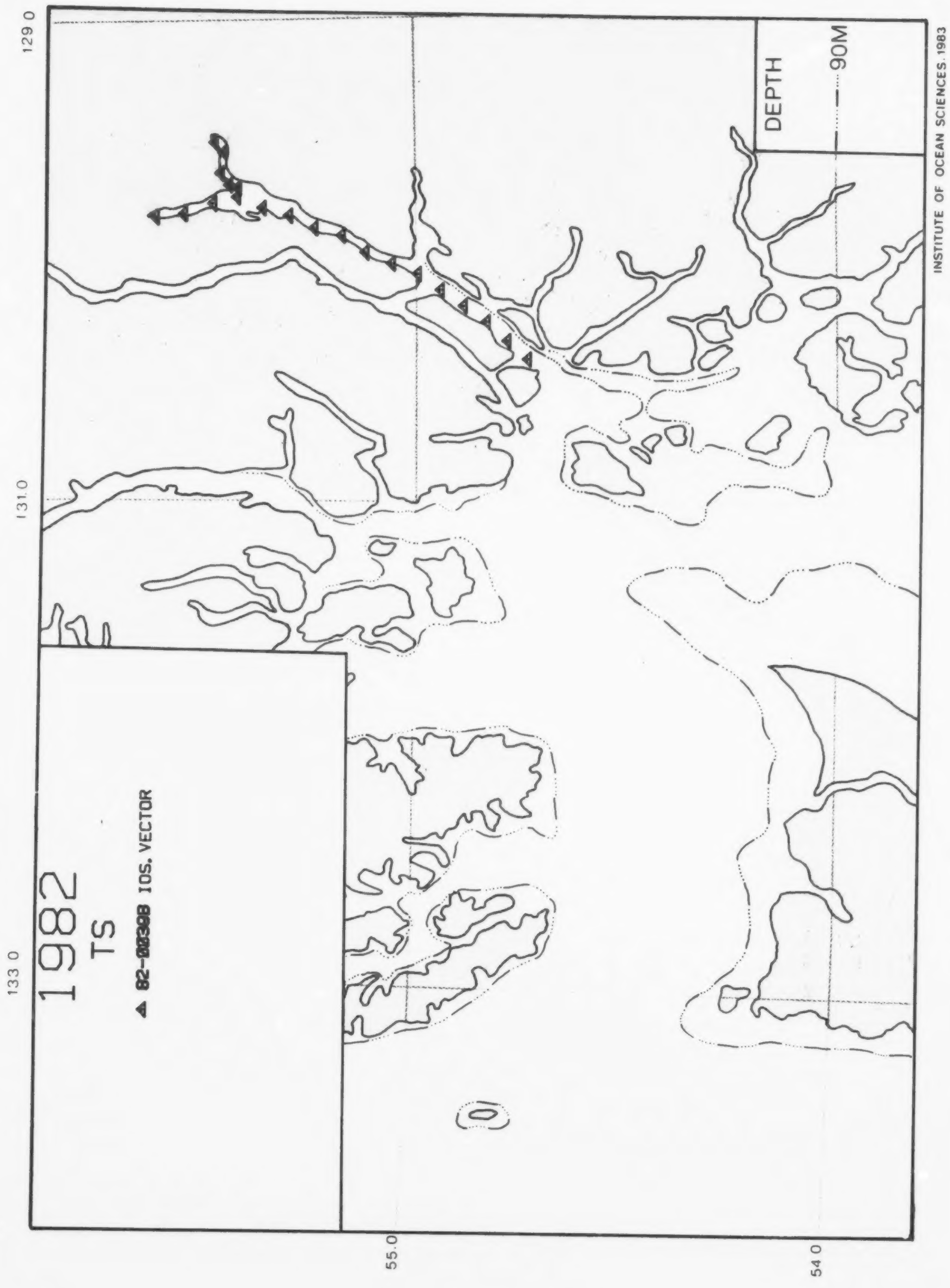
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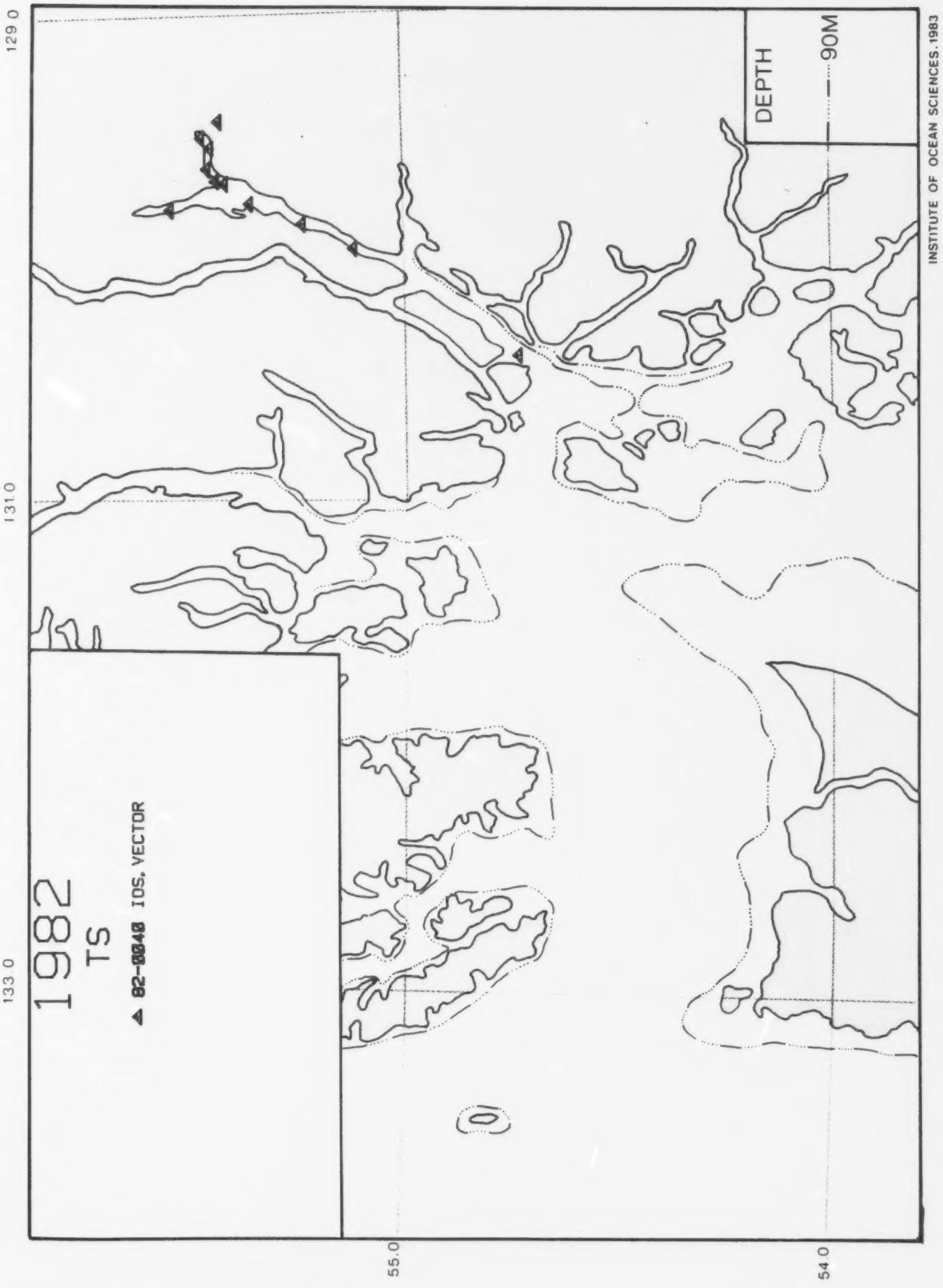
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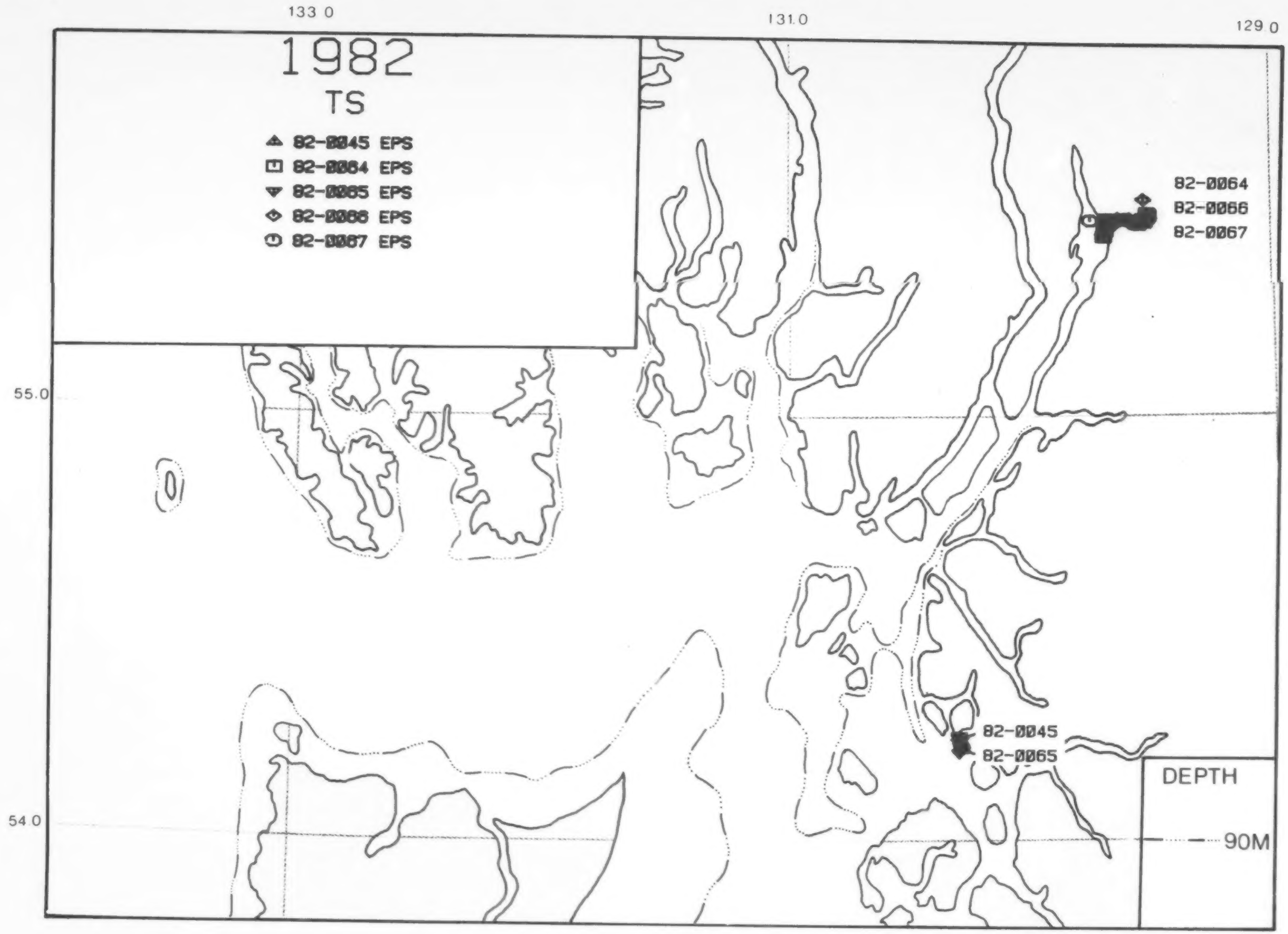
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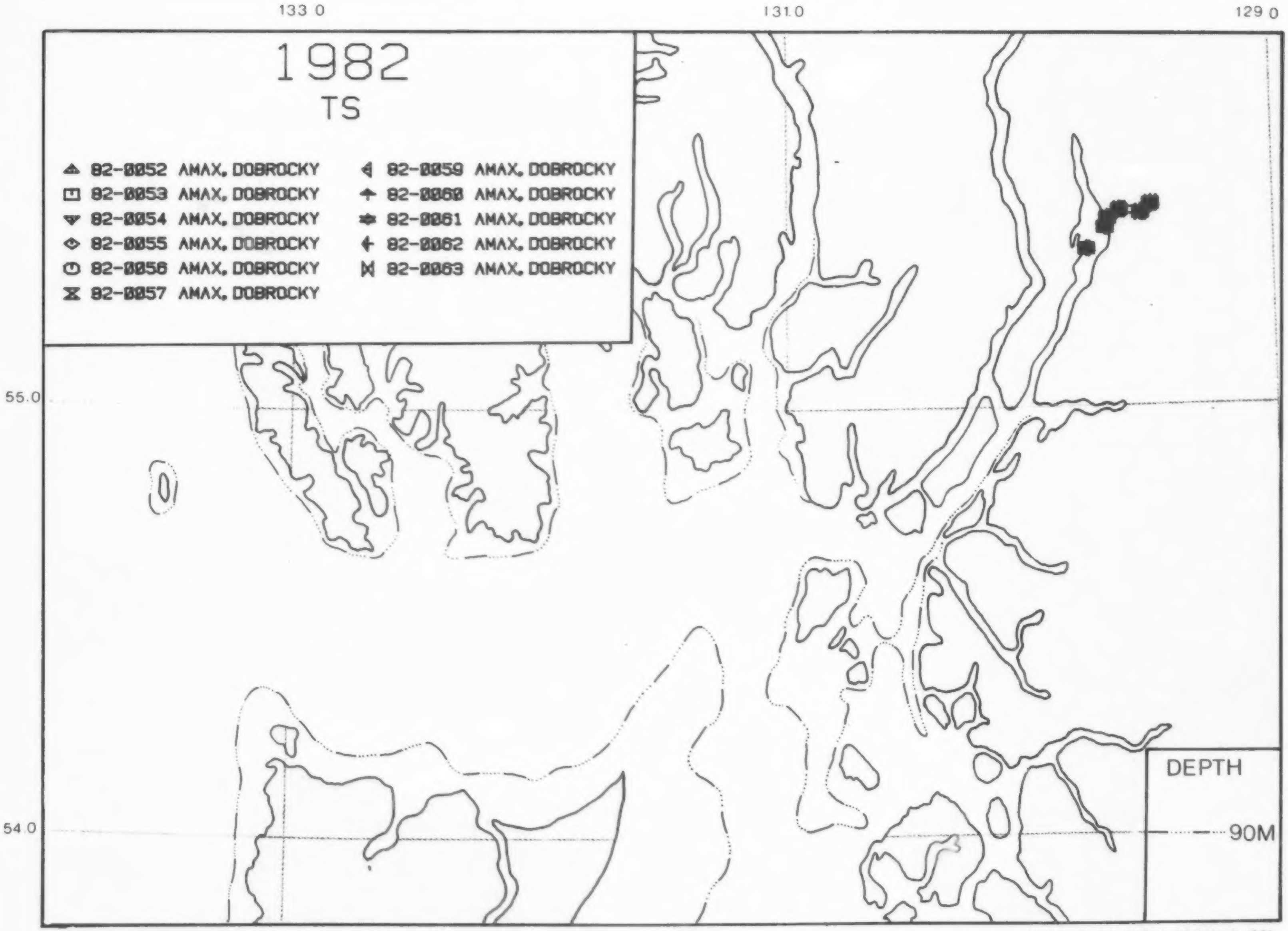
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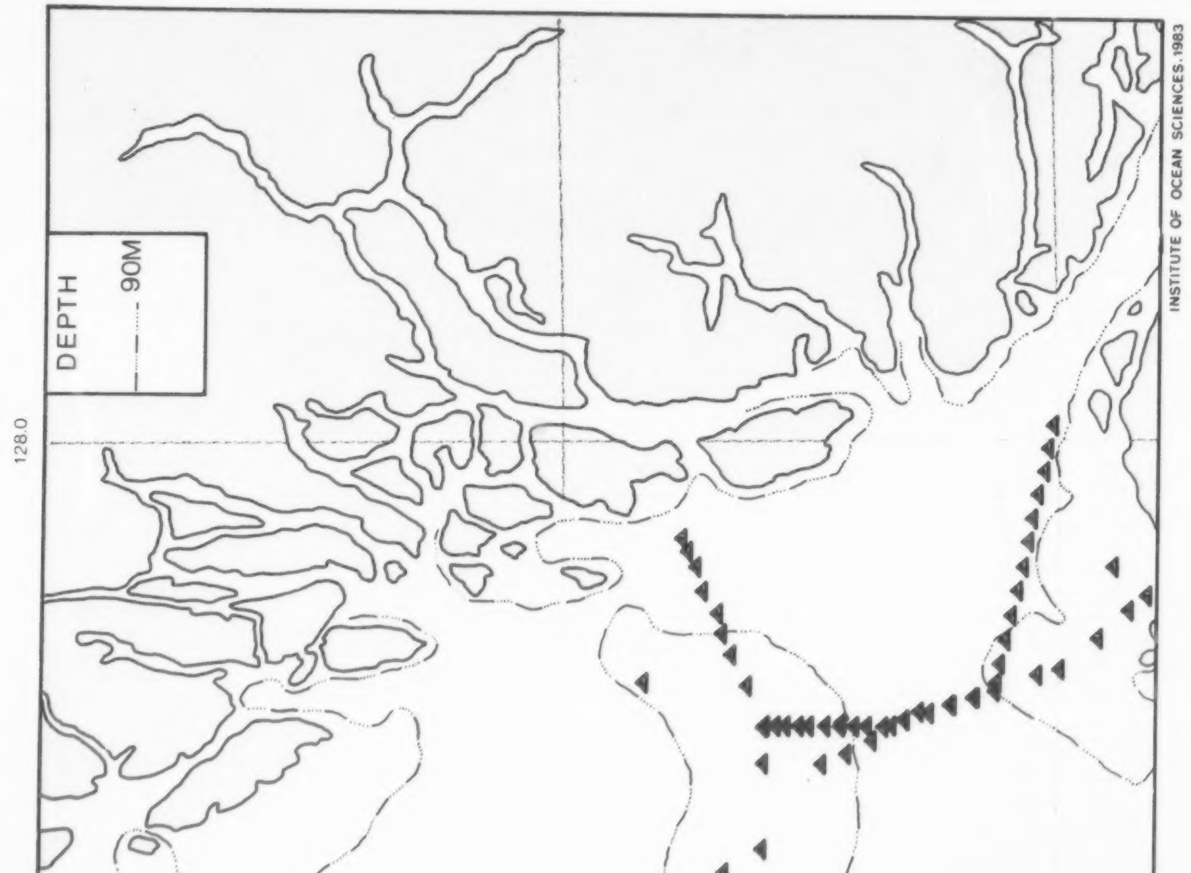
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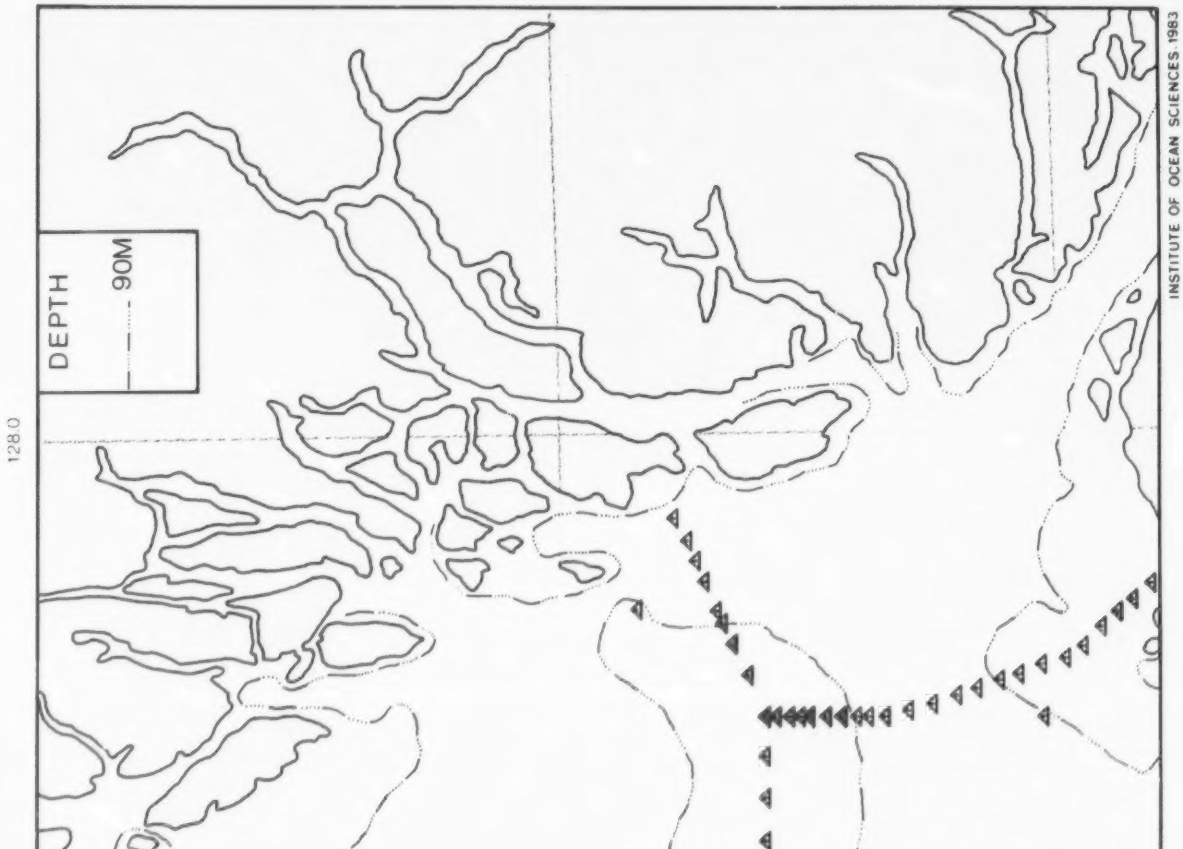
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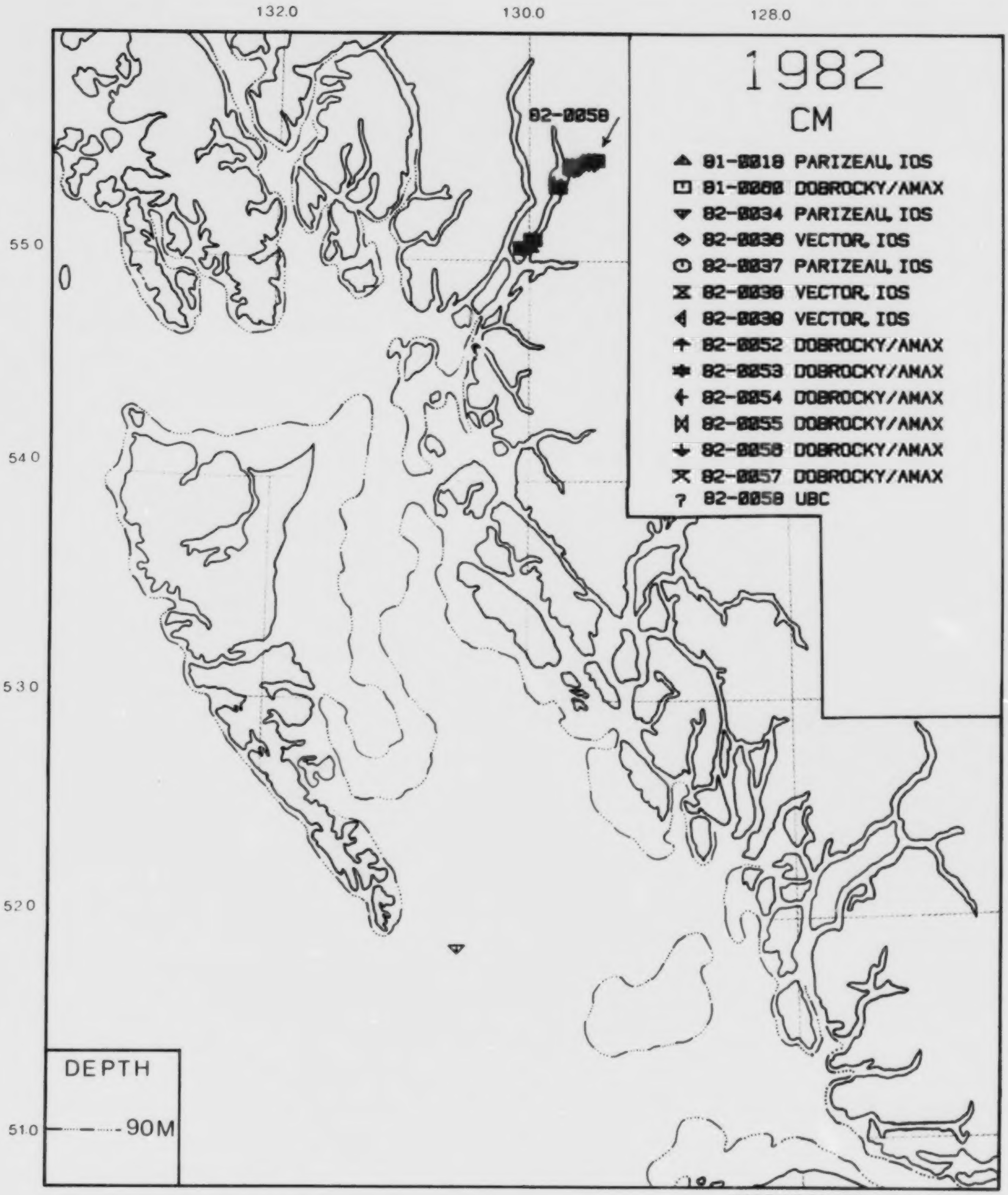
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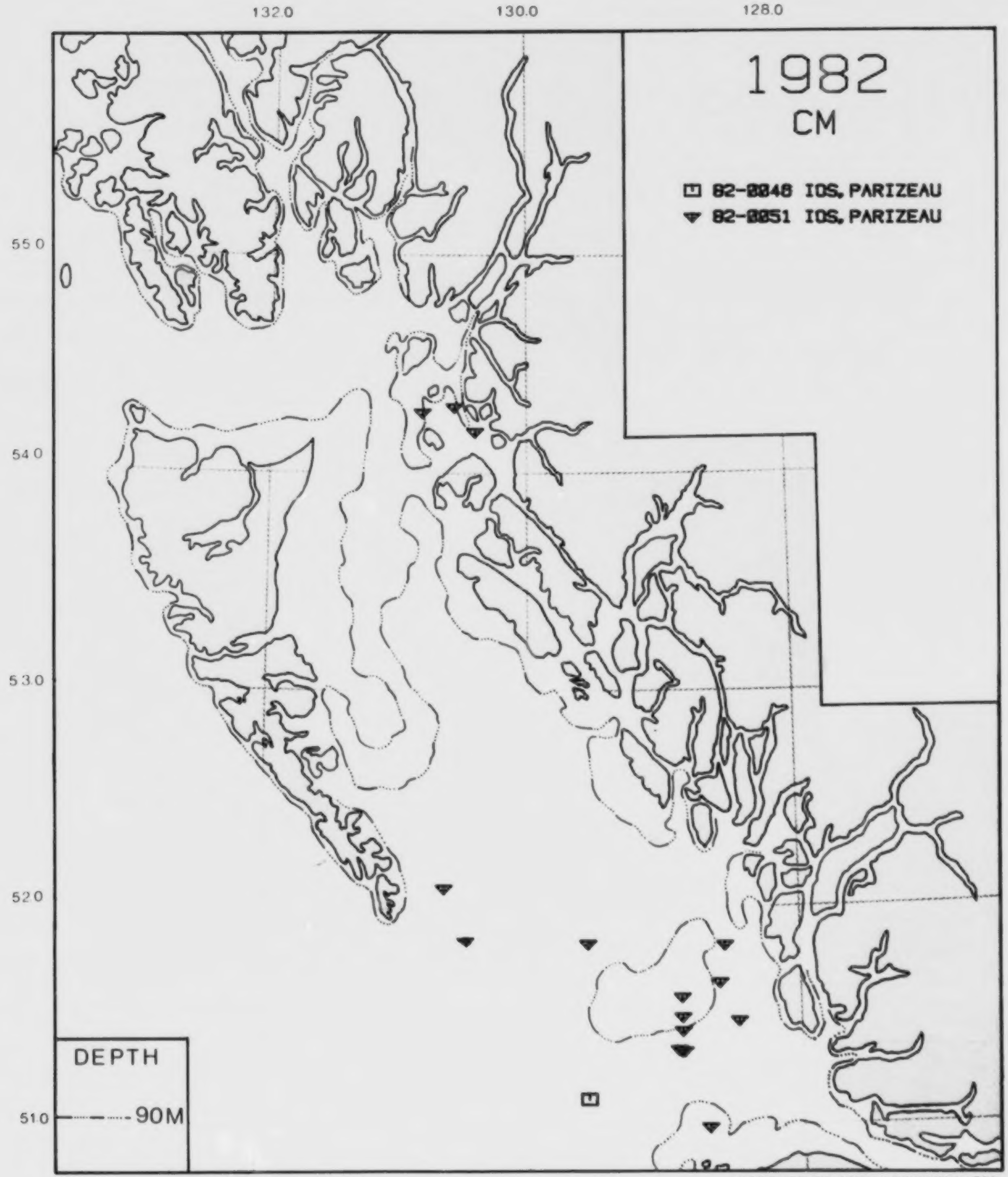
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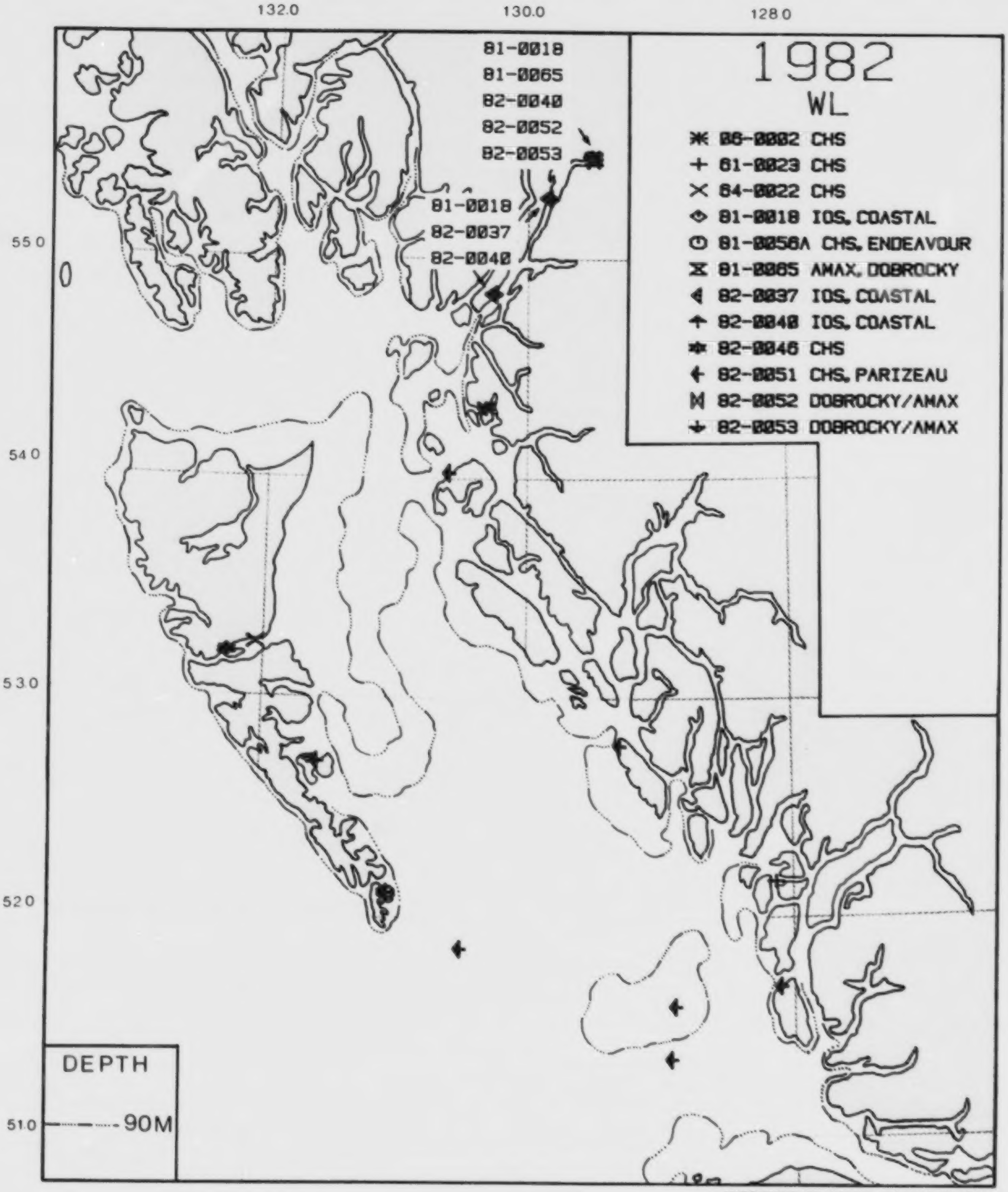
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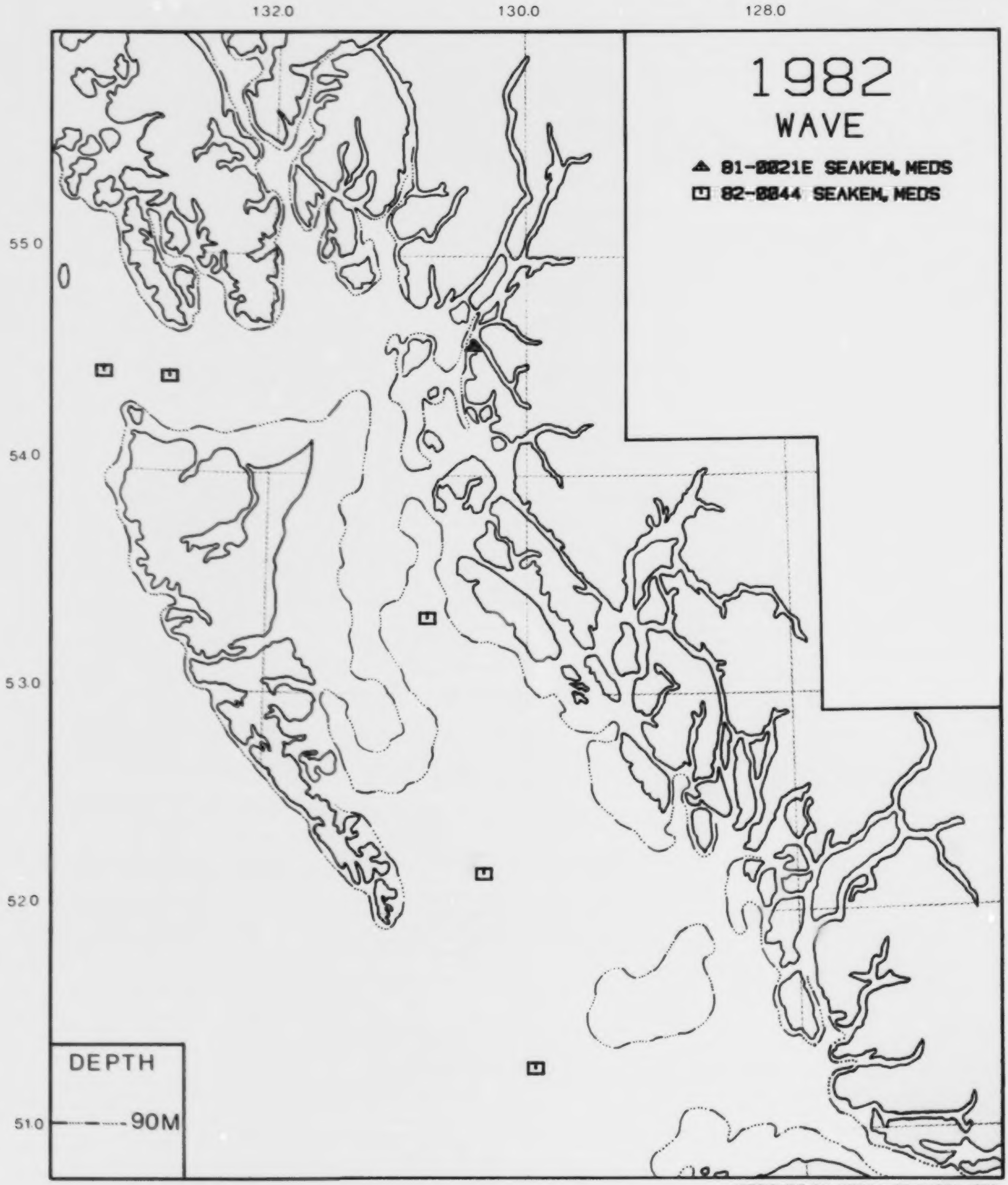
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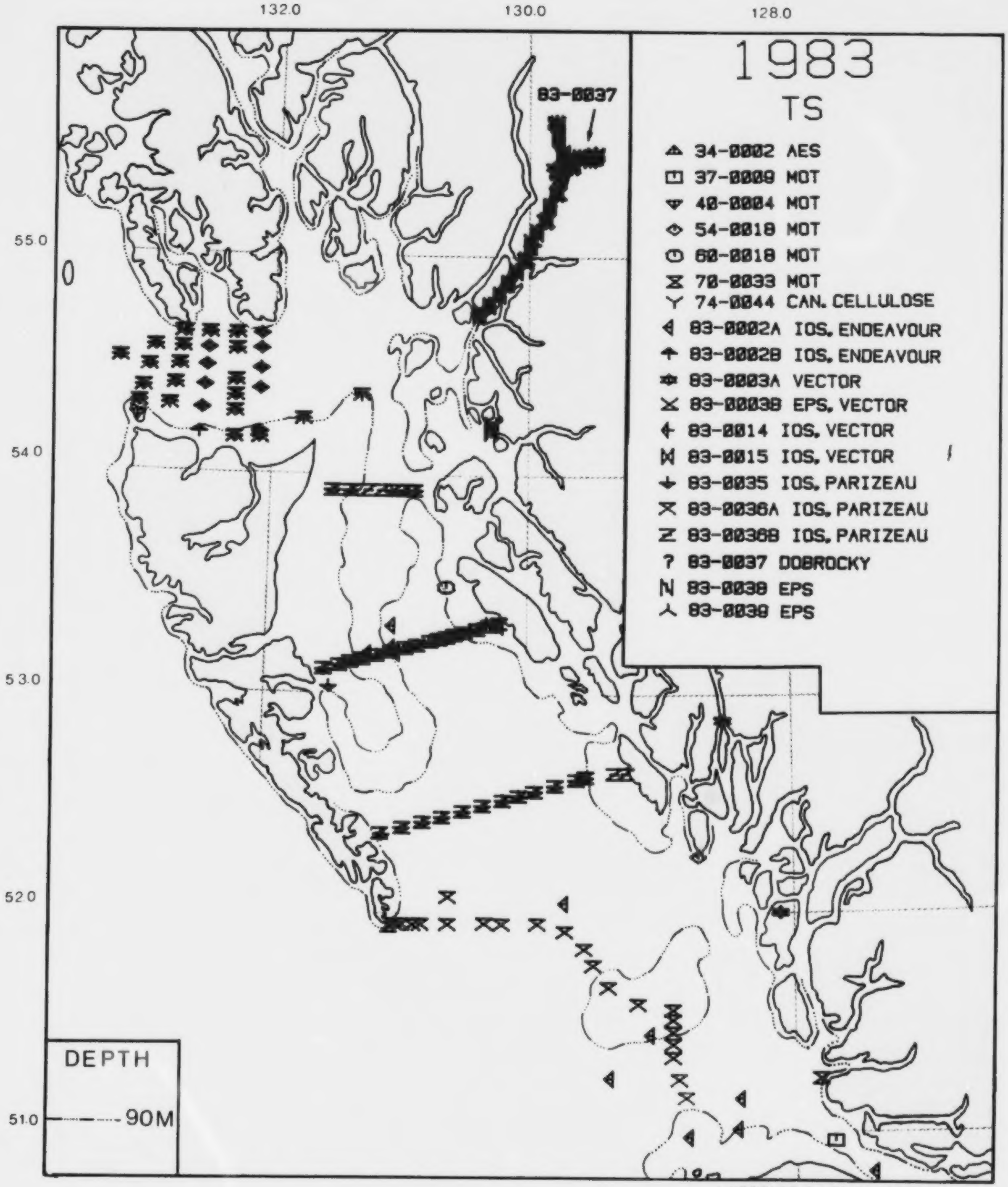
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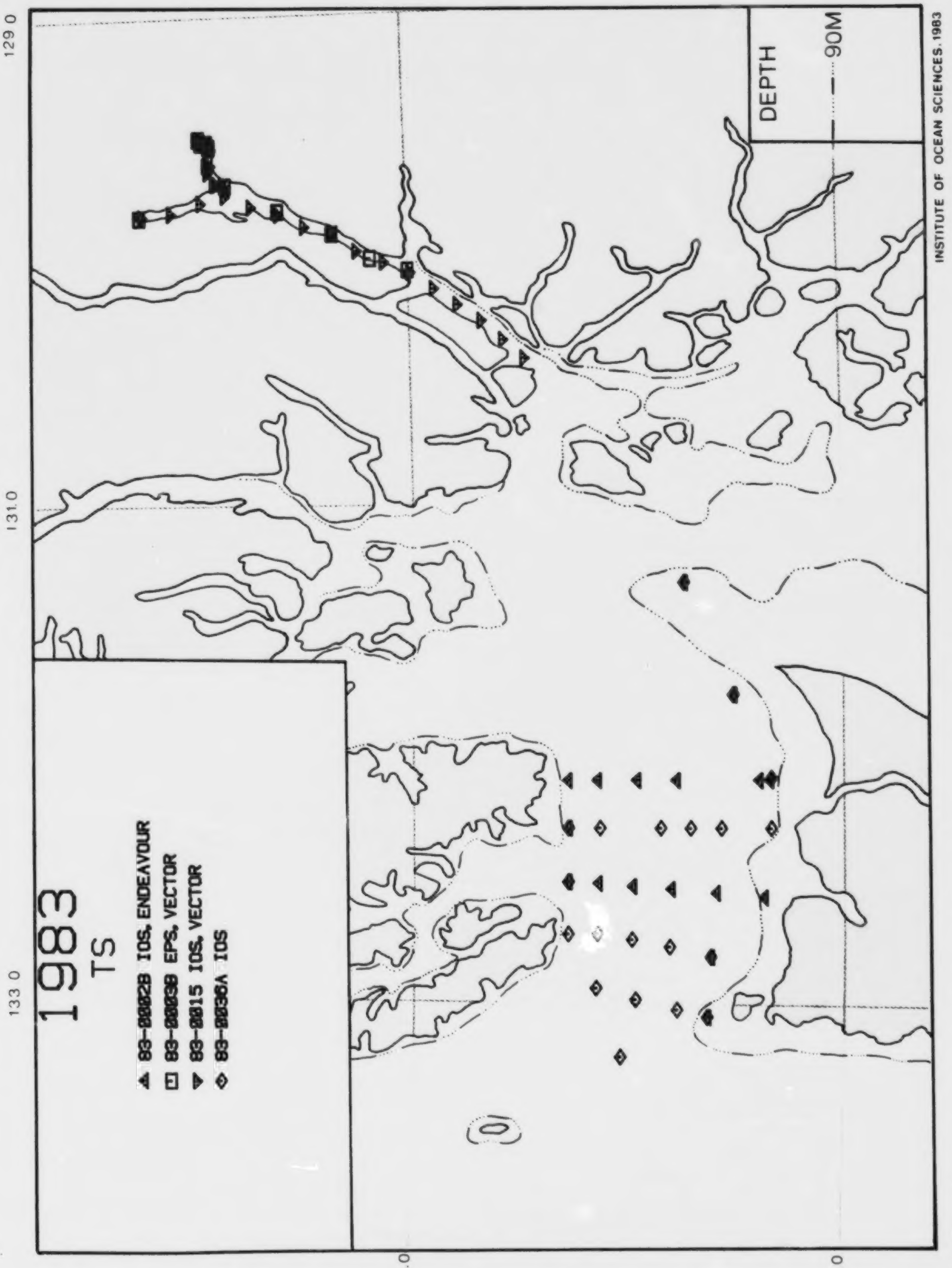
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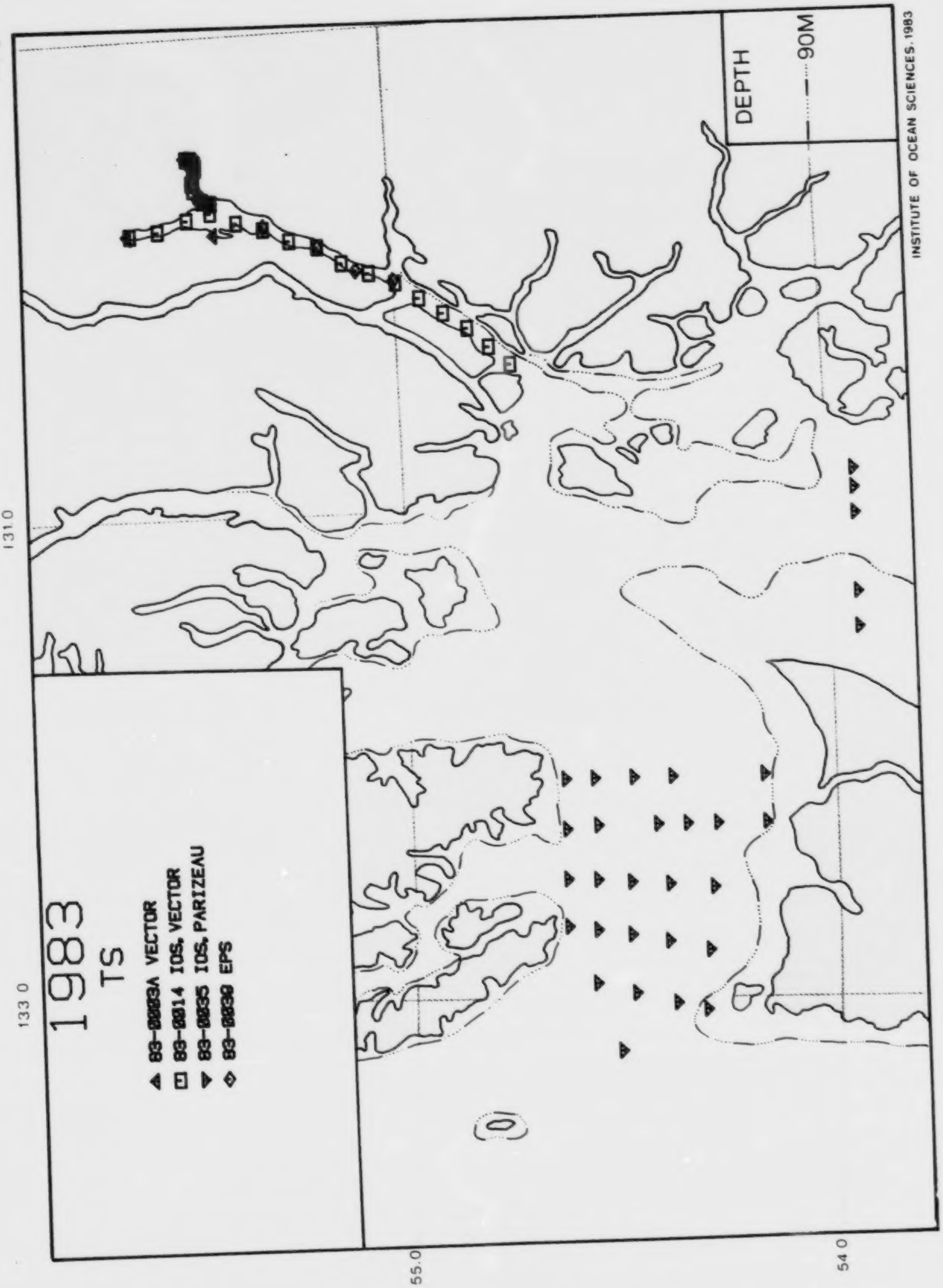
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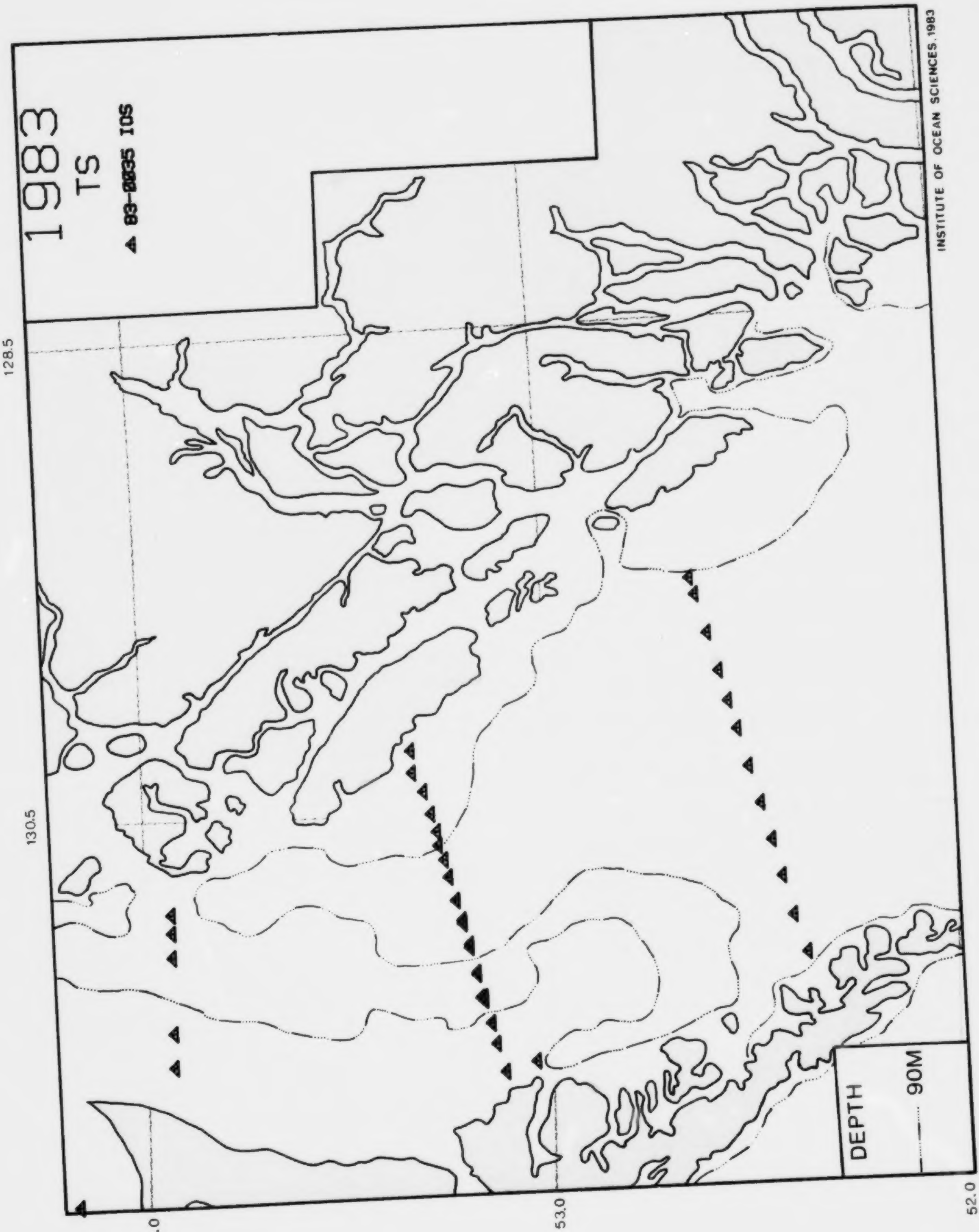
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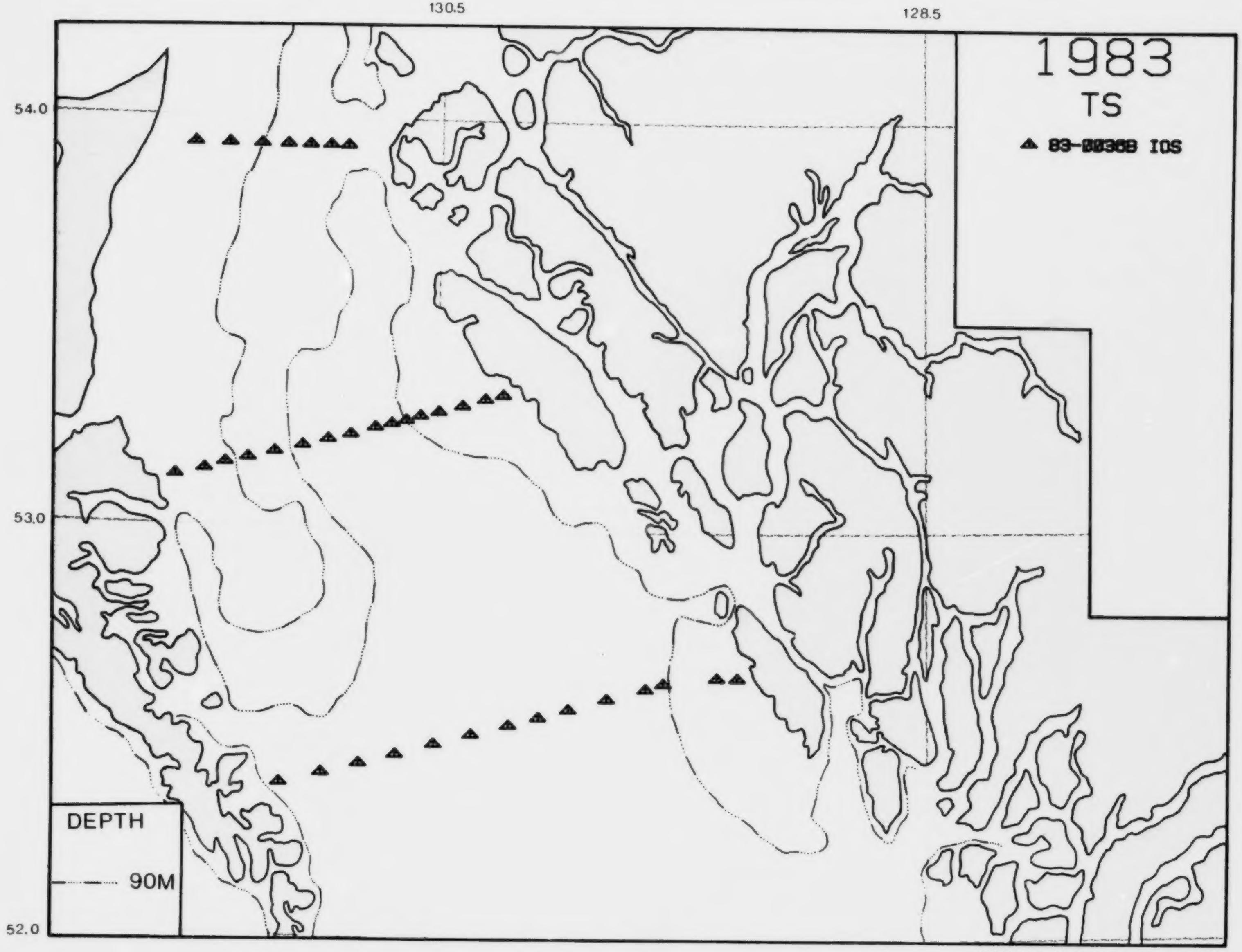
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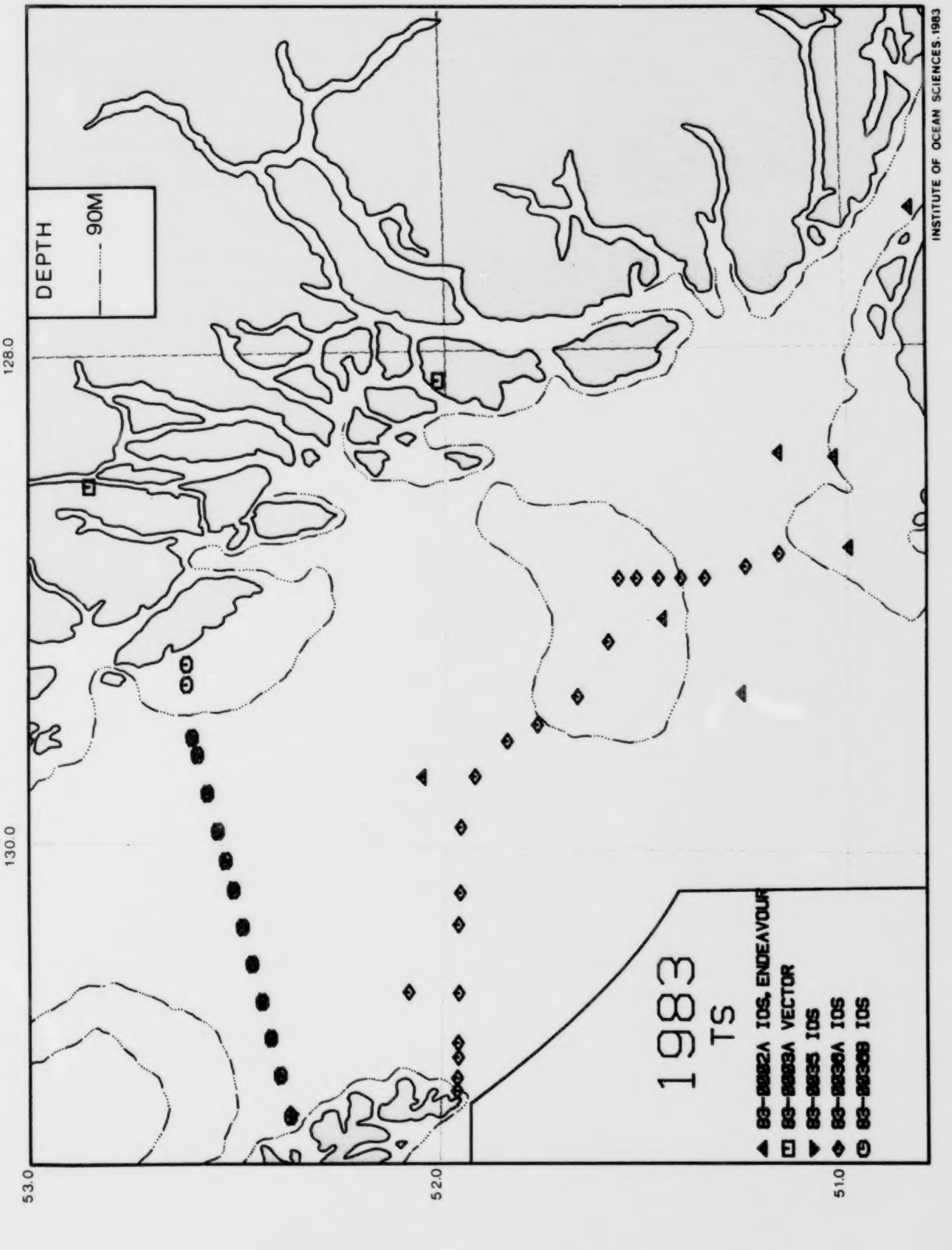
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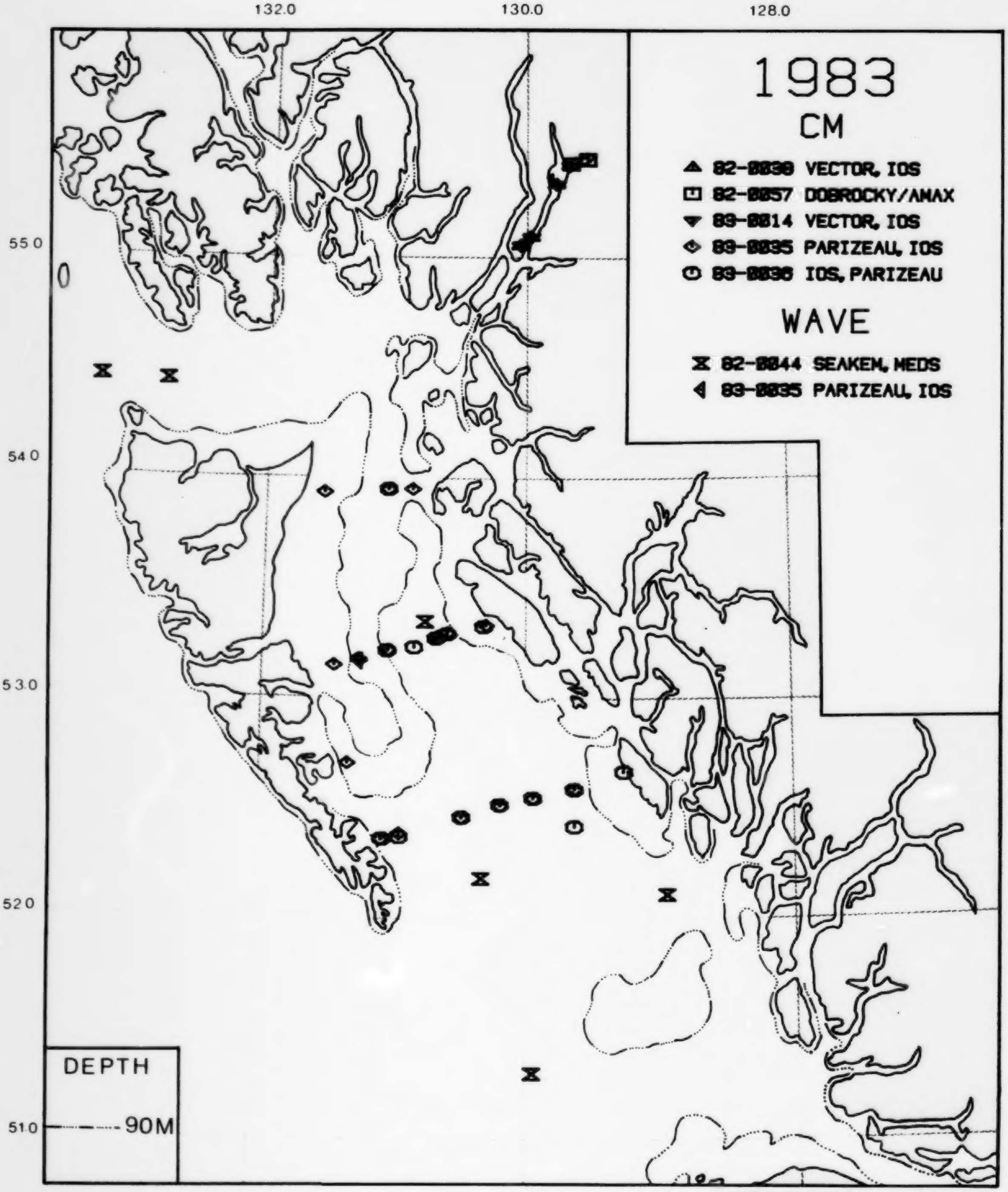
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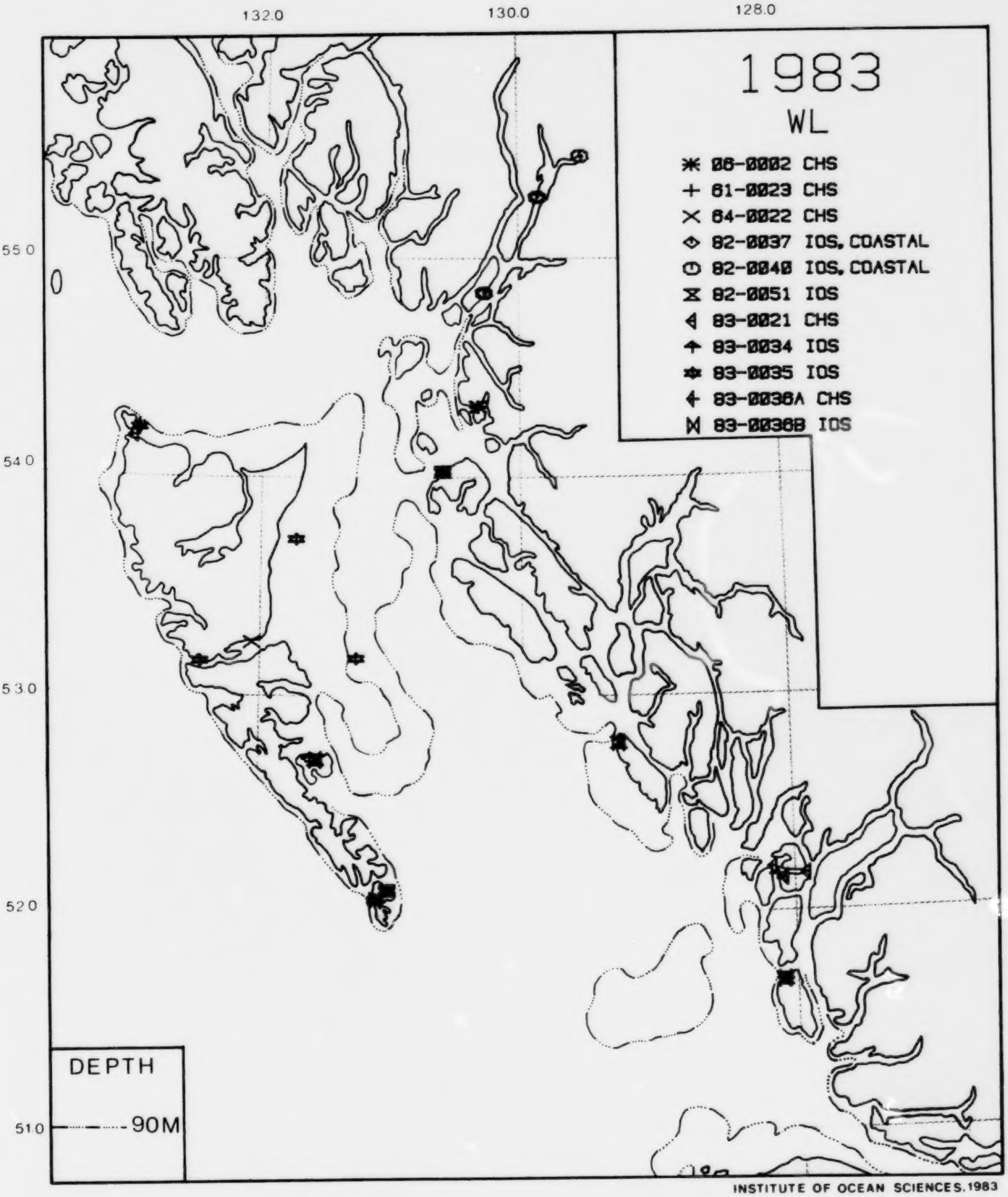
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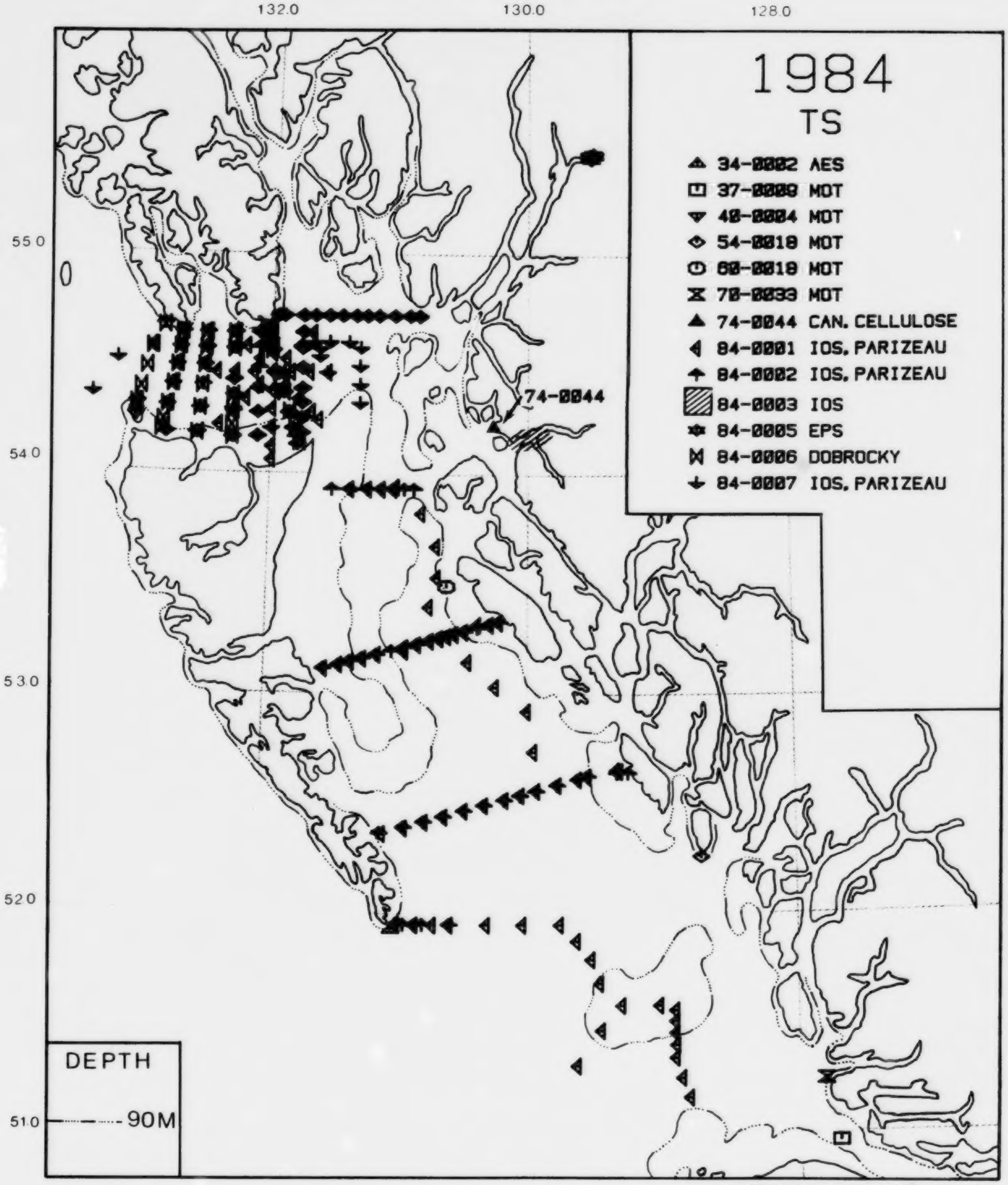
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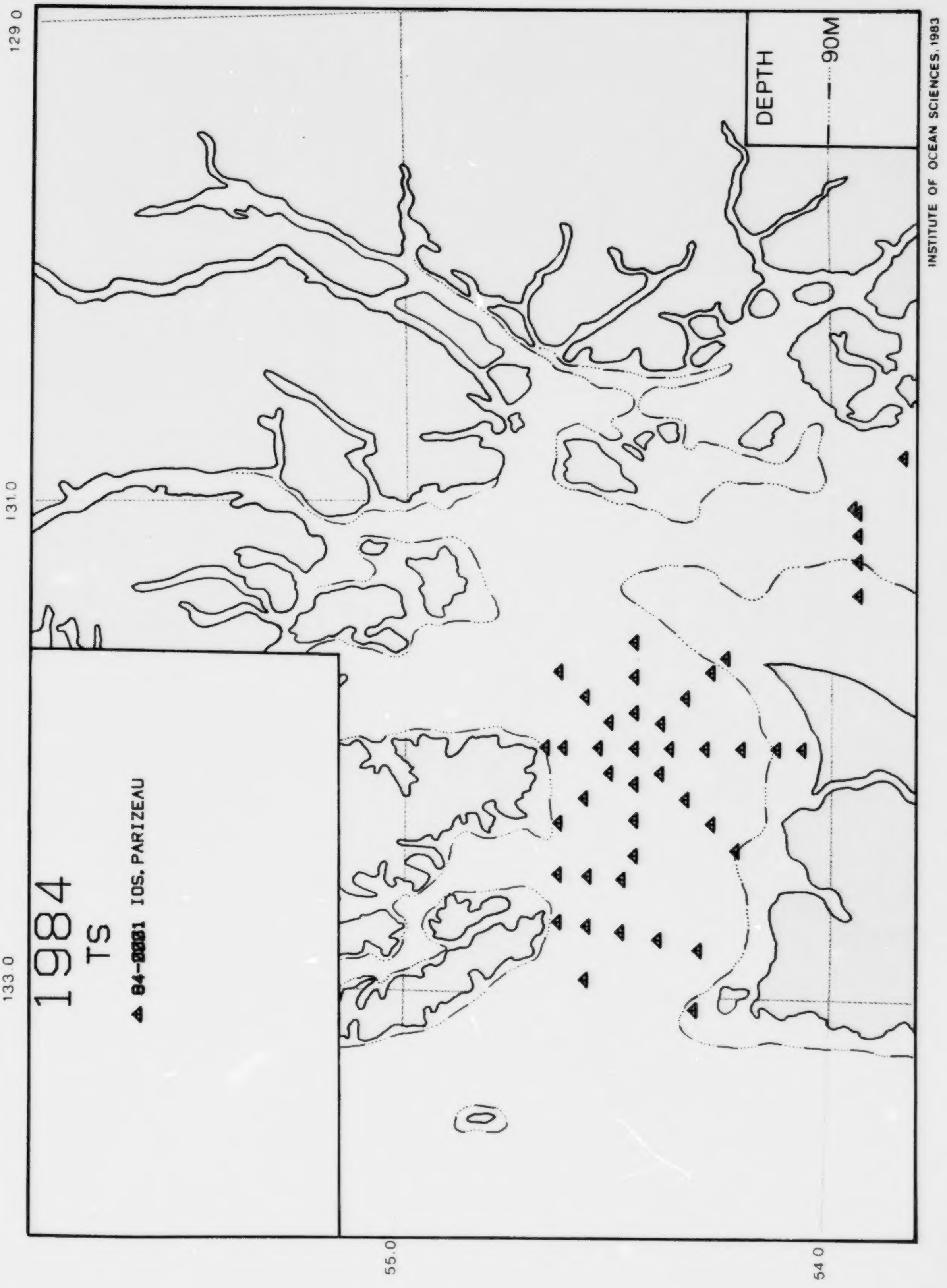
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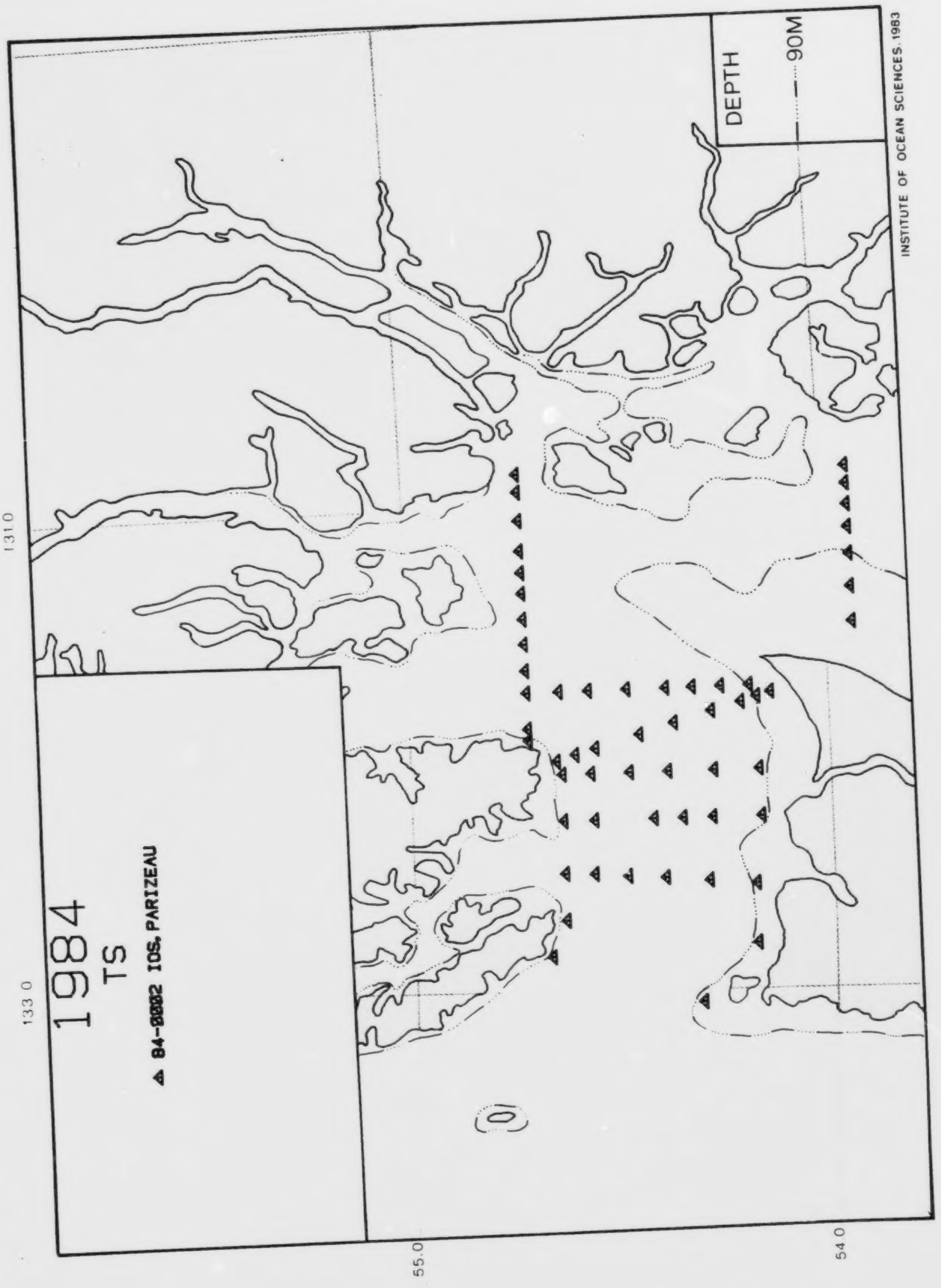
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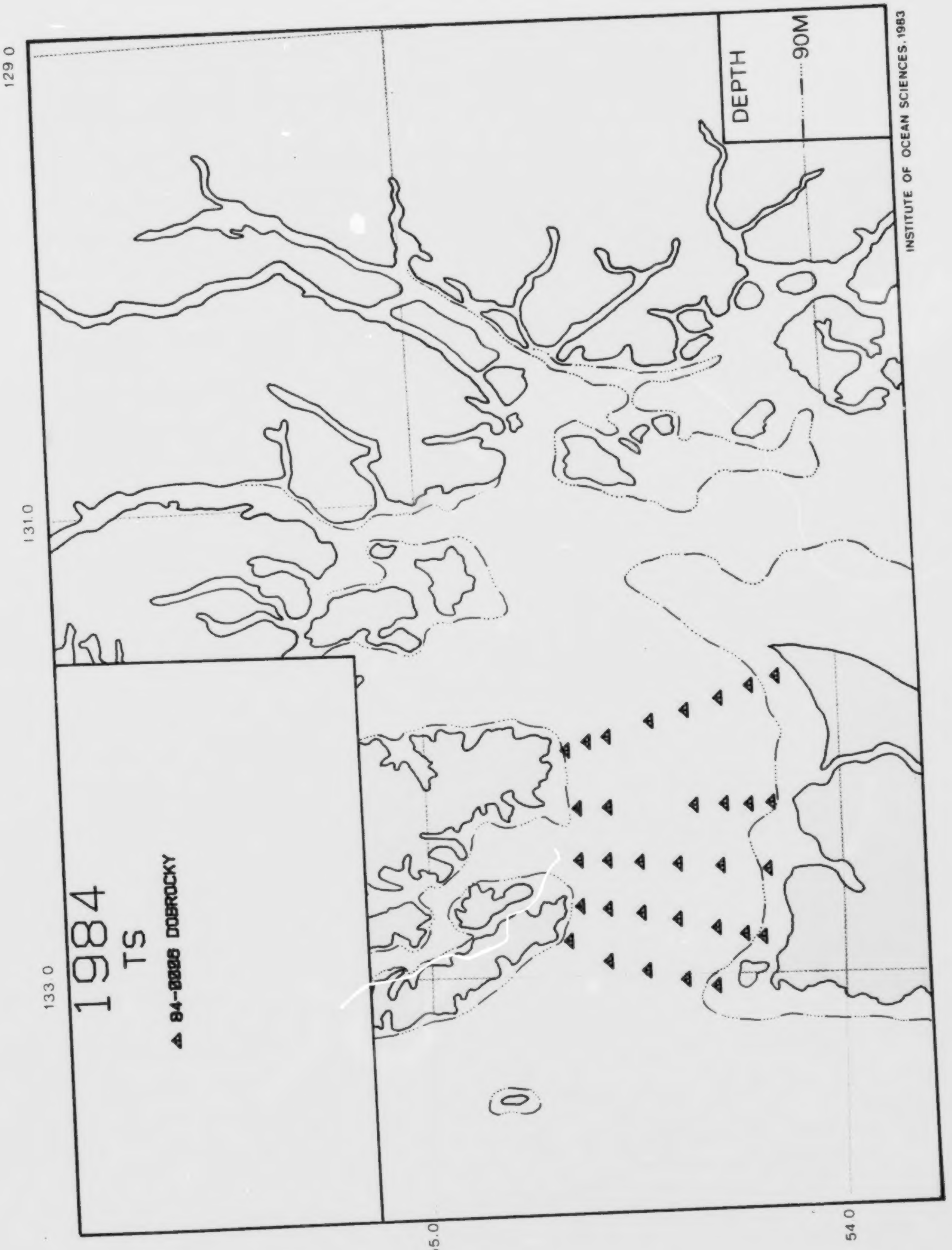
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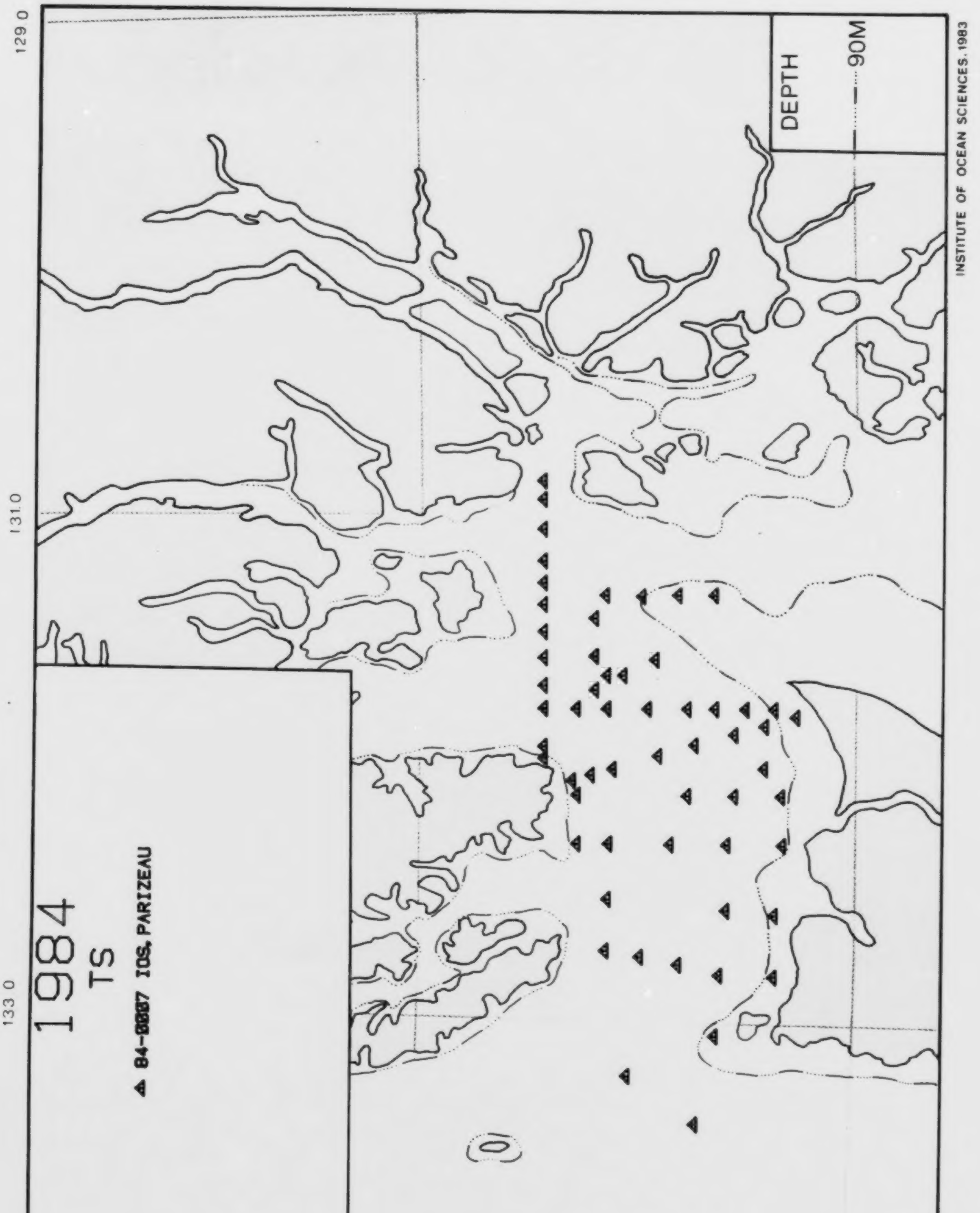
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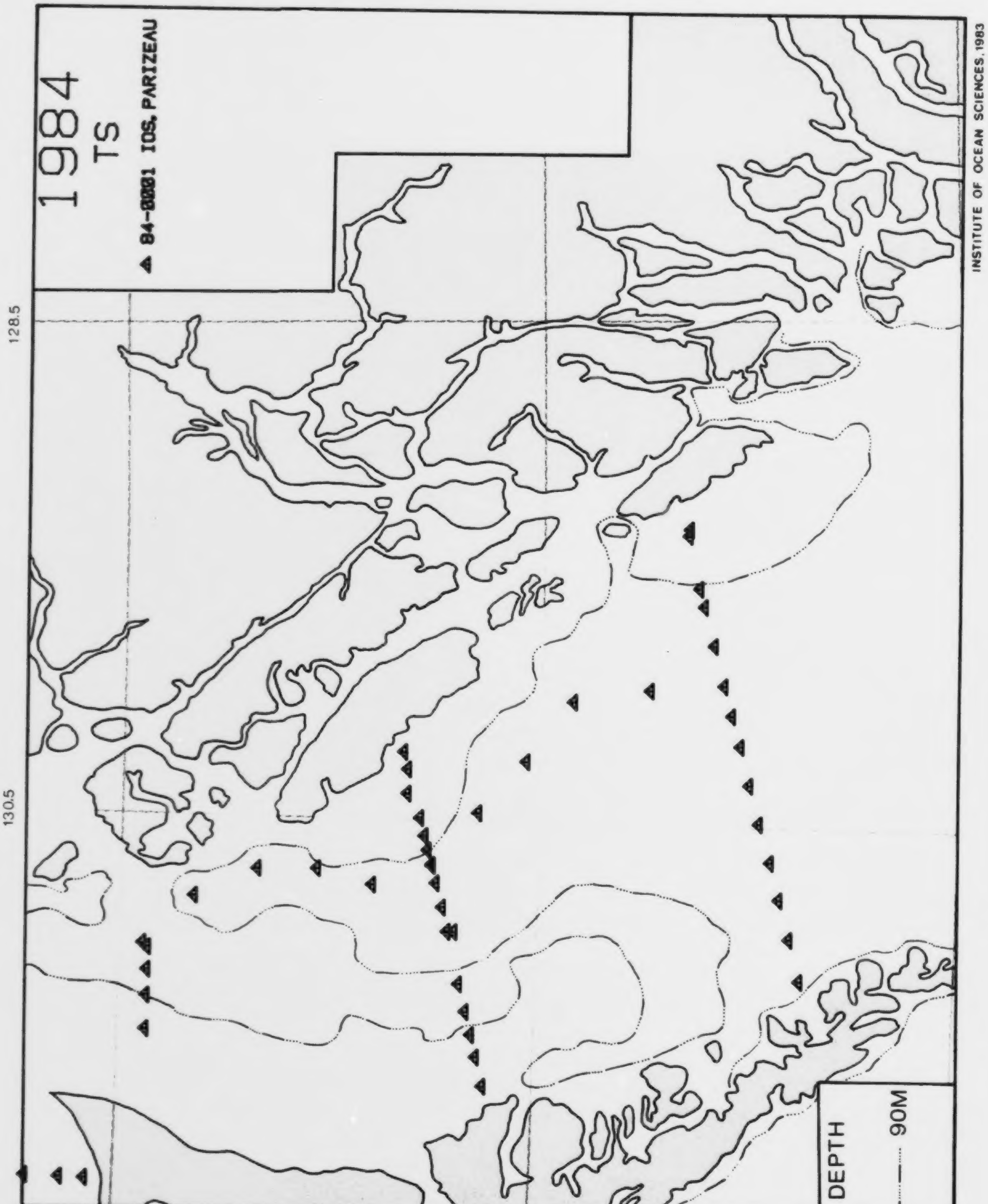
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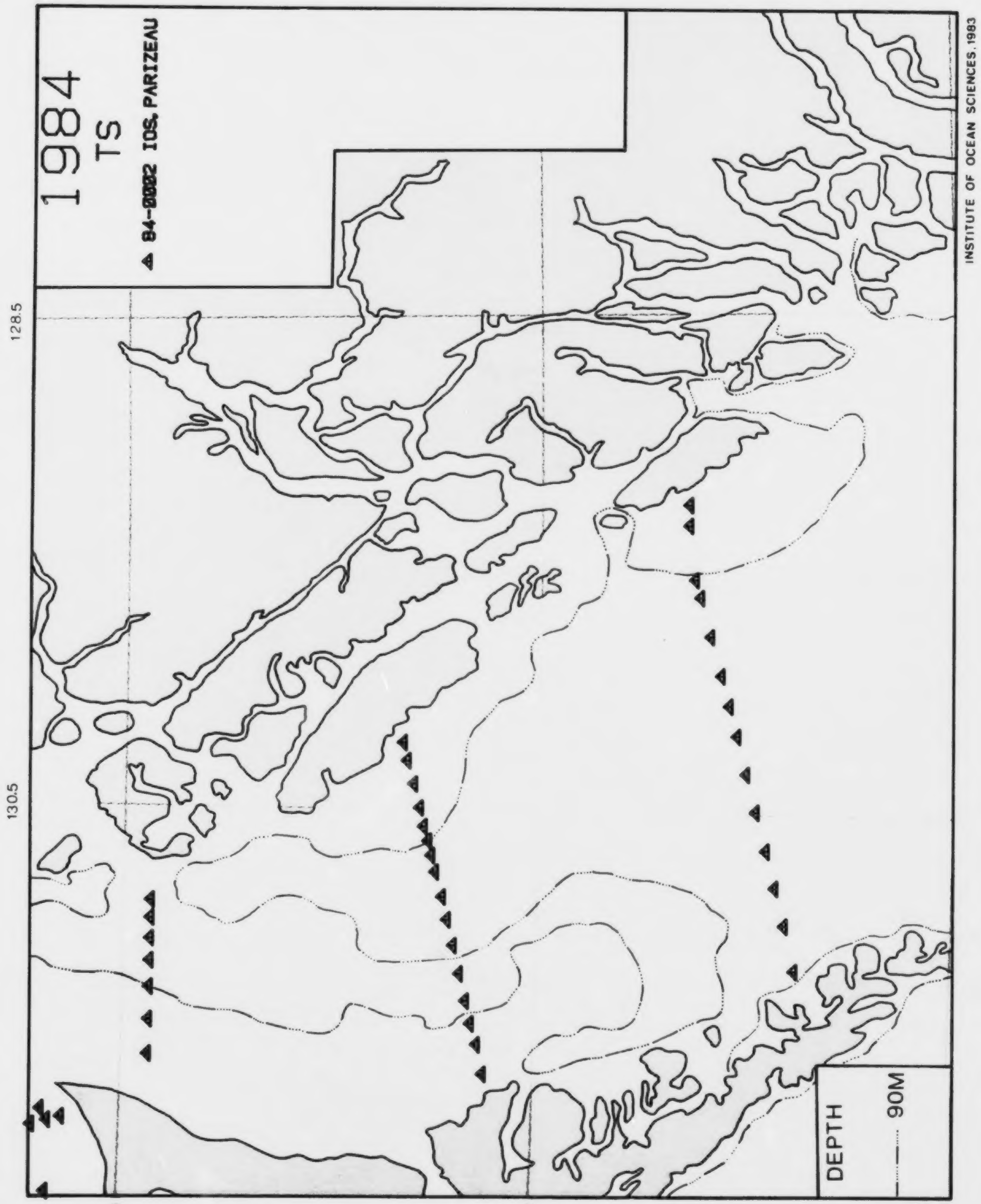
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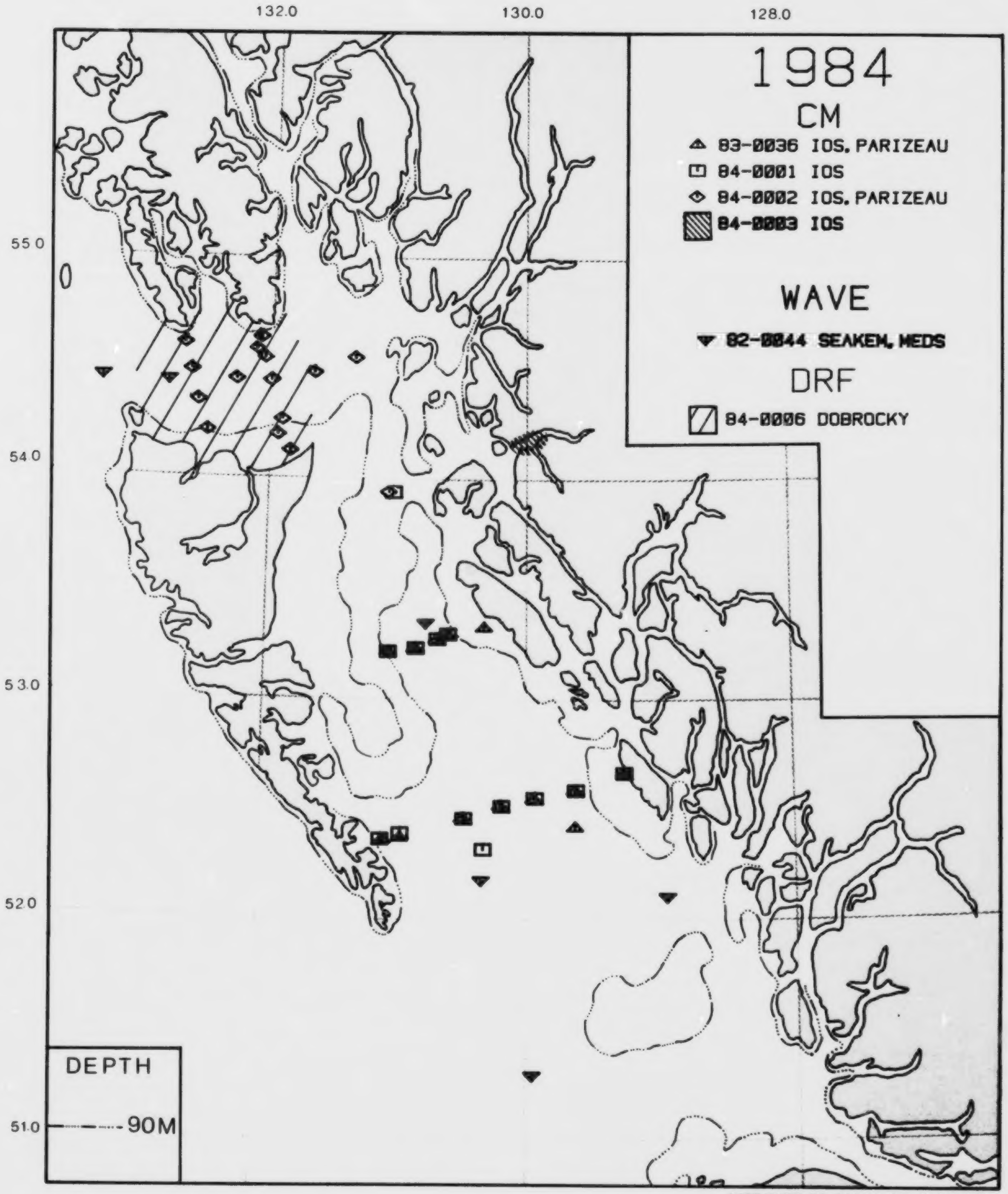
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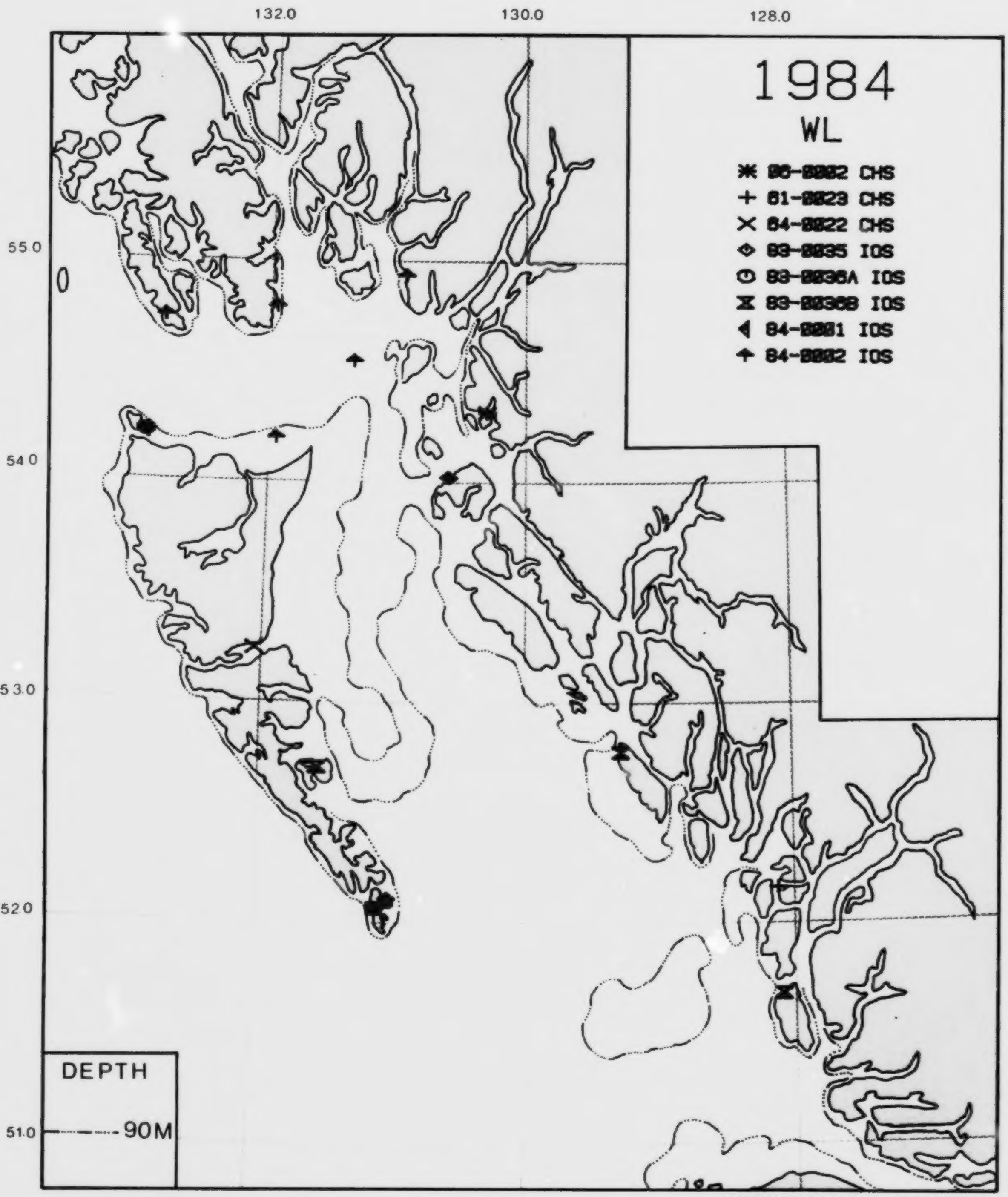
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WEST COAST DATA INVENTORY AND APPRAISAL
VOLUME 1 (PART 2)
Dixon Entrance, Hecate Strait, Queen Charlotte Sound and Adjoining B.C. Coastal Waters: Physical Oceanography — Temperature, Salinity, Currents, Water Levels and Waves 1903 through 1984

J.R. Birch[1], E.C. Luscombe[1], D.B. Fissel[1], and L.F. Giovando[2]

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Department of Fisheries and Oceans
Sidney, B.C., V8L 4B2

1985

CANADIAN DATA REPORT OF HYDROGRAPHY AND OCEAN SCIENCES
NO. 37

Canadian Data Report Of Hydrography and Ocean Sciences

These reports provide a medium for the documentation and dissemination of data in a form directly useable by the scientific and engineering communities.

Generally, the reports will contain raw and/or analyzed data but will not contain interpretations of the data. Such compilations will commonly have been prepared in support of work related to the programs and interests of the Ocean Science and Surveys (OSS) sector of the Department of Fisheries and Oceans.

Data Reports are produced regionally but are numbered and indexed nationally. Requests for individual reports will be fulfilled by the issuing establishment listed on the front cover and title page. Out of stock reports will be supplied for a fee by commercial agents.

Regional and headquarters establishments of Ocean Science and Surveys ceased publication of their various report series as of December 1981. A complete listing of these publications and the last number issued under each title are published in the *Canadian Journal of Fisheries and Aquatic Sciences*, Volume 38: Index to Publications 1981. The current series began with Report Number 1 in January 1982.

Rapport statistique canadien sur l'hydrographie et les sciences océaniques

Ces rapports servent de véhicule pour la compilation et la diffusion des données sous une forme directement utilisable par les scientifiques et les techniciens.

En général, les rapports contiennent des données brutes ou analysées mais ne fournissent pas d'interprétations des données. Ces compilations sont préparées le plus souvent à l'appui de travaux reliés aux programmes et intérêts du service des Sciences et Levés océaniques (SLO) du ministère des Pêches et des Océans.

Les rapports statistiques sont produits à l'échelon régional mais sont numérotés et placés dans l'index à l'échelon national. Les demandes de rapports seront satisfaites par l'établissement auteur dont le nom figure sur la couverture et la page de titre. Les rapports épuisés seront fournis contre rétribution par des agents commerciaux.

Les établissements des Sciences et Levés océaniques dans les régions et à l'administration centrale ont cessé de publier leurs diverses séries de rapports depuis décembre 1981. Vous trouverez dans l'index des publications du volume 38 du *Journal canadien des sciences halieutiques et aquatiques*, la liste de ces publications ainsi que le dernier numéro paru dans chaque catégorie. La nouvelle série a commencé avec la publication du Rapport n° 1 en janvier 1982.

CANADIAN DATA REPORT OF
HYDROGRAPHY AND OCEAN SCIENCES
NO. 37

1985

WEST COAST DATA INVENTORY AND APPRAISAL
VOLUME 1 (PART 2)
Dixon Entrance, Hecate Strait, Queen Charlotte Sound and Adjoining B.C. Coastal Waters: Physical Oceanography - Temperature, Salinity, Currents, Water Levels and Waves
1903 through 1984

by

J.R. Birch[1], E.C. Luscombe[1], D.B. Fissel[1],

and L.F. Giovando[2]

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PREFACE

To manage Canadian West Coast waters competently, there is a fundamental requirement to review the sufficiency and suitability of the available scientific data for many purposes - such as engineering design, regulation, assessment, planning, research and monitoring. We consider this review to consist of three phases: (i) the cataloguing, mapping and methods-appraisal of all existing data sets; (ii) the actual scrutiny of the data themselves and the judgement of their utility for answering management questions; and (iii) the analysis and interpretation of the best of these data.

This inventory, which indexes the physical-oceanographic data of Dixon Entrance, Hecate Strait, Queen Charlotte Sound and adjoining waters, is considered a major contribution to phase (i). It has been produced by the Ocean Information Division at the Institute of Ocean Sciences, Department of Fisheries and Oceans, as part of a Data Inventory and Appraisal Program. Contract projects, supervised by government scientists and funded by numerous federal agencies, have examined all known marine-data sets which contain oceanographic information obtained in the areas in question. Evaluation of the data-set quality has been carried out by careful examination of the documentation for methodologies used in sampling, storage and analysis.

It is our hope that this inventory will assist you, both in establishing the usefulness of existing data for whatever particular purpose contemplated, and in assessing the confidence to be placed in the interpretations. In addition, it should aid in setting priorities for archiving large quantities of data into the Department's Marine Environmental Data Service (MEDS) in Ottawa.

L. F. Giovando
B. D. Smiley
Scientific Coordinators
Canadian West Coast Compilation
and Appraisal Series

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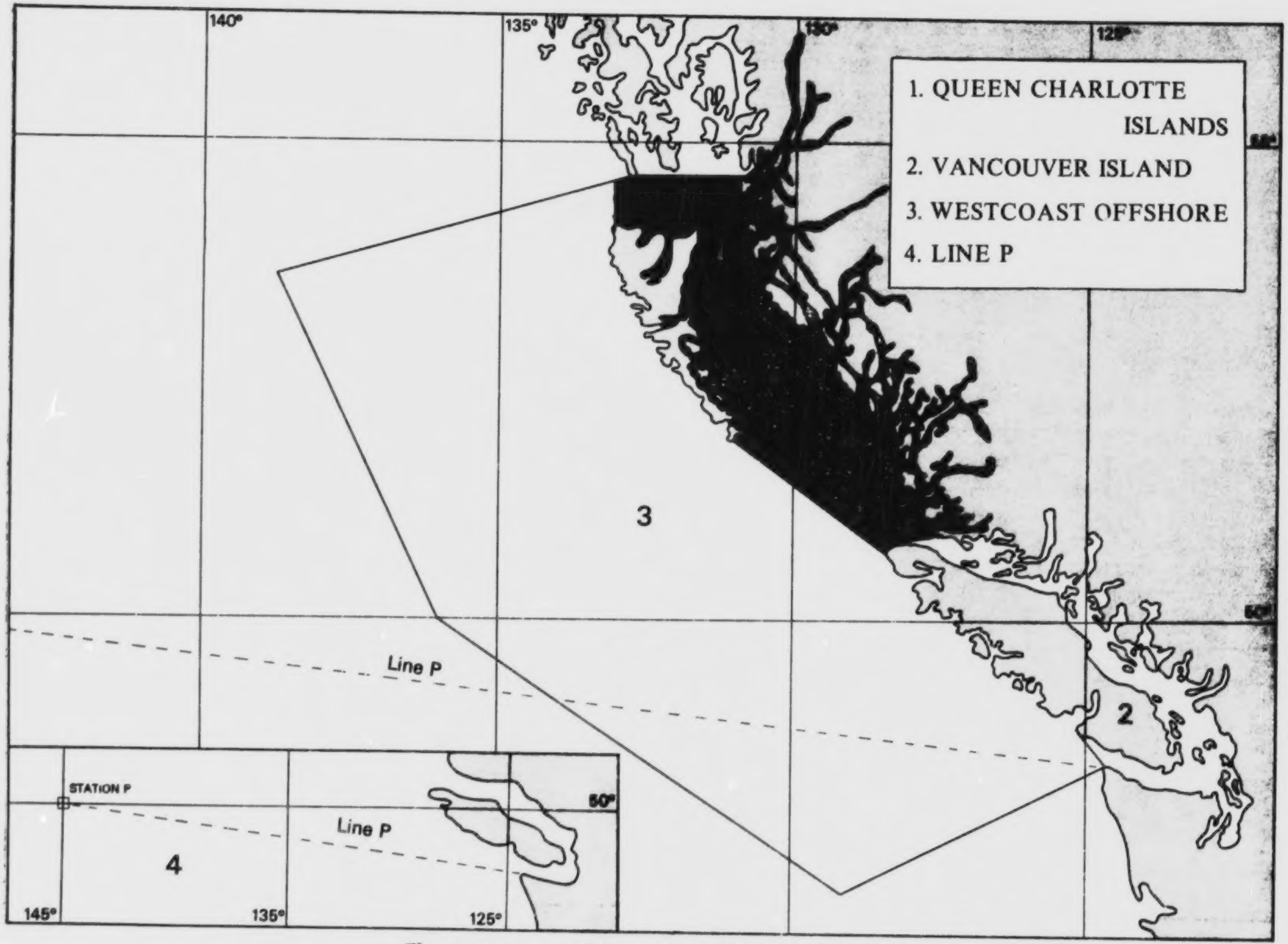
WEST COAST DATA INVENTORY AND APPRAISAL

VOLUME 1 (PART 2)

Dixon Entrance, Hecate Strait, Queen Charlotte Sound and Adjoining B.C. Coastal Waters: Physical Oceanography


140°
135°
130°
125°
55°
50°
1. QUEEN CHARLOTTE ISLANDS
2. VANCOUVER ISLAND
3. WESTCOAST OFFSHORE
4. LINE P
3
2
Line P
STATION P
50°
Line P
4
145°
135°
125°

The area covered by this volume is shaded.

10. INDEXES

This section contains three indexes to the data sets. The first is a geographical index which provides a listing by sub-areas (Figure 21). All data sets with any measurements in a particular sub-area are listed by I.D. number under that sub-area.

The second index classifies the data sets by measurement type, under the following headings:

Temperature and salinity-bottle	:	measurements at discrete points in the water column
Profiles of temperature and salinity	:	measurements made with a profiling instrument such as a CTD
Water levels, bottom pressure	:	measurements from shore-based tide stations or bottom-pressure gauges
Eulerian currents	:	measurements of current velocity at a fixed point with a current meter
Waves	:	measurements of waves at a fixed point.

The third index lists references for each data set by number. The data set number appears at the left-hand side of the page, with references listed to the right. The main references are listed, followed by other interpretive or analytical references, indented with respect to the main references. The list of interpretive or analytical references may not be complete.

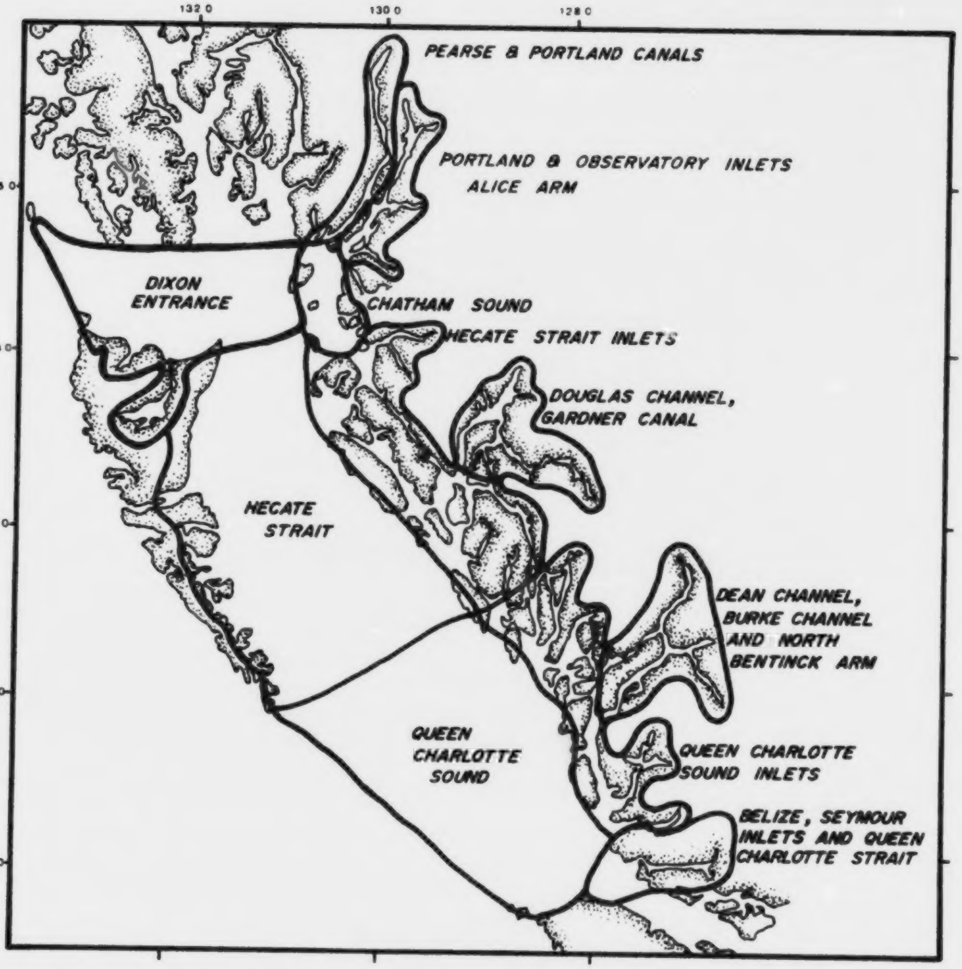

132.0
130.0
128.0
55.0
54.0
53.0
52.0
51.0
PEARSE & PORTLAND CANALS
PORTLAND & OBSERVATORY INLETS
ALICE ARM
DIXON ENTRANCE
CHATHAM SOUND
HECATE STRAIT INLETS
DOUGLAS CHANNEL, GARDNER CANAL
HECATE STRAIT
DEAN CHANNEL, BURKE CHANNEL AND NORTH BENTINCK ARM
QUEEN CHARLOTTE SOUND
QUEEN CHARLOTTE SOUND INLETS
BELIZE, SEYMOUR INLETS AND QUEEN CHARLOTTE STRAIT

Figure 21: Sub-areas used for geographic index.

10.1 GEOGRAPHICAL

DIXON ENTRANCE

07-0002
10-0002
34-0001
36-0004
37-0004
38-0002
39-0001
40-0004
40-0006
40-0007
41-0002
48-0009
51-0012
51-0014
51-0016
51-0017
53-0015B
53-0017
54-0012A
54-0012B
54-0012C
55-0013
55-0020
55-0021
57-0007B
57-0008
57-0009
57-0016
57-0018
58-0007
58-0008
58-0009
58-0014
59-0011A
59-0011B
59-0011C
59-0012
59-0013
59-0018
59-0019
60-0011
60-0012
61-0016
61-0017A
61-0017B
61-0018
61-0019
61-0020
62-0015
62-0018
62-0020
62-0025
63-0017
64-0011
64-0020
65-0011
65-0012
66-0022
67-0022
67-0026
68-0012
72-0044
73-0040
75-0070
78-0028A
78-0028C
78-0028F
78-0048
78-0049
78-0050
78-0052
78-0053
78-0054
78-0057
79-0036B
79-0036C
79-0036E
79-0052
79-0053
79-0056A
79-0056B
79-0060
80-0042
80-0051A
80-0051B
80-0051C
80-0051D
80-0053
81-0053F
81-0053G
81-0055
82-0044
82-0065
83-0002B
83-0021
83-0035
83-0036A
84-0001
84-0002
84-0006
84-0007

CHATHAM SOUND

03-0001
06-0002
35-0004
38-0002
40-0005
43-0002
45-0001
48-0009
51-0009
54-0012C
55-0013
55-0021
57-0009
58-0009
59-0011A
59-0011B
59-0011C
59-0012
60-0012
60-0017
61-0017A
61-0017B
61-0018
61-0020
61-0022
62-0018
62-0020
62-0025
63-0011C
64-0010
64-0012
64-0020
65-0021
66-0021
67-0008
67-0024
69-0033
70-0032
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71-0028
71-0038
72-0037
72-0043
73-0031A
73-0031B
73-0031C
73-0032
73-0047
74-0040A
74-0040B
74-0043
74-0044
75-0070
76-0056
77-0042
77-0058
77-0079
77-0080
78-0028B
78-0028C
78-0028E
78-0028G
78-0037
78-0049
78-0053
79-0036A
79-0036B
79-0036C
79-0036D
79-0036E
79-0036F
79-0051
79-0053
80-0042A
81-0021A
81-0021B
81-0021C
81-0021E
81-0022
81-0050
81-0053F
82-0045
82-0051
82-0065
84-0007

PEARSE & PORTLAND CANALS

12-0001
48-0009
51-0009
66-0013

PORTLAND INLET
OBSERVATORY INLET
ALICE ARM

12-0001
13-0002
16-0003
48-0009
51-0009
54-0017
61-0023
62-0027
63-0011C
63-0017
64-0020
65-0018
66-0013
74-0042
75-0064
76-0050
76-0062
76-0063
77-0059
77-0063
77-0064
77-0076
77-0077
77-0078
78-0028B
79-0036A
79-0036B
79-0036C
79-0053
80-0043A
80-0043B
81-0018
81-0024A
81-0024B
81-0054
81-0057
81-0058
81-0059
81-0060
81-0061
81-0062
81-0063
81-0064
81-0065
81-0066
81-0067
81-0068
82-0025
82-0034
82-0036
82-0037
82-0038
82-0039A
82-0039B
82-0040
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82-0053
82-0054
82-0055
82-0056
82-0057
82-0058
82-0059
82-0060
82-0061
82-0062
82-0063
82-0064
82-0066
82-0067
83-0003A
83-0003B
83-0014
83-0015
83-0037
83-0039

HECATE STRAIT

10-0002
10-0003
11-0001
12-0001
13-0002
15-0003
22-0001
23-0002
24-0002
35-0003
38-0002
48-0009
51-0009
51-0012
52-0013
53-0015B
53-0016
53-0018
54-0012A
54-0012B
54-0012C
54-0016
54-0018
55-0013
55-0020
55-0021
55-0022
56-0008
56-0016
57-0017
57-0018
58-0008
58-0009
58-0012
59-0011A
59-0011B
59-0011C
60-0012
60-0017
60-0018
61-0017A
61-0017B
61-0018
61-0021
62-0015
62-0018
62-0025
63-0011C
63-0017
64-0011
64-0020
64-0022
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67-0022
68-0022
68-0024
68-0025
68-0026
69-0030
69-0031
70-0031
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77-0057C
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78-0028A
78-0028B
78-0028C
78-0028D
78-0028E
78-0028F
78-0028G
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78-0051
78-0052
78-0053
78-0054
78-0055
78-0056
79-0036A
79-0036B
79-0036C
79-0036D
79-0036E
79-0036F
79-0053
79-0056A
79-0056B
79-0060
79-0065
80-0051A
80-0051B
80-0051C
80-0051D
81-0053D
81-0053F
81-0053G
81-0055
81-0056A
82-0044
82-0046
82-0051
82-0068
83-0002A
83-0035
83-0036A
83-0036B
84-0001
84-0002

HECATE STRAIT INLETS

05-0002
07-0002
09-0001
12-0001
14-0003
30-0002
38-0002
48-0009
49-0007
50-0010
51-0009
53-0016
54-0012A
54-0012C
55-0013
55-0020
56-0008
61-0017A
61-0022
62-0018
62-0020
62-0025
62-0027
63-0011C
64-0010
64-0012
64-0020
65-0011
65-0019
66-0021
69-0018
72-0044
73-0029
73-0041
73-0042
74-0049
77-0042A
77-0042B
77-0042C
77-0042D
77-0042E
77-0043
77-0057A
77-0057B
77-0057C
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78-0028B
78-0028C
78-0028D
78-0028E
78-0029A
78-0029B
78-0029C
78-0049
79-0036A
79-0036B
79-0036C
79-0036D
79-0036F
79-0060
79-0066
82-0051
83-0003A
83-0035
84-0003

DOUGLAS & GARDNER CHANNELS

09-0001
51-0009
51-0013
51-0015
62-0020
63-0011C
64-0012
64-0018
66-0013
67-0009
67-0014
72-0026
75-0061
77-0042A
77-0042B
77-0042C
77-0043
77-0065
77-0067
78-0028B
78-0028D
78-0028E
78-0028G
78-0029A
78-0029B
78-0029C
78-0046
78-0046A
79-0036B
79-0036D
81-0023

QUEEN CHARLOTTE SOUND

28-0003
34-0002
36-0003
50-0006
51-0012
51-0016
53-0015B
54-0012A
54-0012B
54-0012C
54-0012D
54-0018
55-0013
55-0020
55-0021
56-0008
56-0009
56-0017
57-0007A
57-0007B
57-0016
57-0019
58-0007
58-0008
58-0009
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67-0022
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70-0020C
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77-0057B
77-0057C
77-0066A
77-0066B
78-0028F
78-0028G
78-0047
78-0048
78-0049
78-0050
78-0051
78-0052
78-0053
78-0054
78-0055
78-0056
79-0036D
79-0036E
79-0036F
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79-0056B
79-0059
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80-0051B
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80-0051D
80-0055B
81-0053C
81-0053D
81-0053E
81-0053F
81-0053G
81-0069
82-0034
82-0044
82-0046
82-0051
82-0068
83-0002A
83-0036A
84-0001
84-0002

QUEEN CHARLOTTE SOUND INLETS

05-0002
05-0003
06-0002
07-0002
09-0001
15-0003
15-0013
24-0002
28-0003
37-0008
42-0003
47-0003
51-0009
55-0012
56-0008
56-0009
56-0017
59-0011C
59-0012
59-0013
59-0017
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60-0017
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63-0011B
63-0018
64-0018
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68-0027
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70-0020B
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78-0028G
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79-0036B
79-0036C
79-0036D
79-0036E
79-0036F
79-0060
82-0051
83-0003A
83-0021
83-0036B

DEAN & BURKE CHANNELS
N. BENTINCK ARM

06-0002
09-0001
11-0002
22-0001
51-0009
56-0008
56-0015
56-0017
61-0022
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63-0011B
63-0018
64-0012
64-0018
64-0023
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66-0013
66-0023
67-0023
69-0018
69-0036
70-0020B
71-0046
72-0025
72-0036B
73-0048
73-0049
74-0041
74-0050A
74-0050B
75-0063
78-0028B
78-0028C
78-0028D

BELIZE INLET
SEYMOUR INLET
QUEEN CHARLOTTE STRAIT

31-0003
37-0009
51-0009
51-0012
53-0015A
54-0012C
55-0013
55-0020
55-0021
56-0009
57-0007B
57-0019
58-0008
58-0009
59-0011A
60-0012
60-0017
61-0018
62-0017
62-0019
62-0020
62-0026
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69-0018
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70-0020C
71-0019
77-0057A
77-0057B
77-0057C
78-0028B
78-0028C
78-0049
79-0036D
79-0036E
83-0002A

10.2 MEASUREMENT TYPE

TEMPERATURE & SALINITY -BOTTLE

34-0001
34-0002
35-0002
35-0004
36-0003
36-0004
37-0004
37-0008
37-0009
38-0002
39-0001
40-0004
40-0005
40-0006
40-0007
41-0002
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50-0006
51-0009
51-0012
51-0016
53-0015
53-0018
54-0012
54-0018
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55-0013
55-0020
55-0021
56-0008
56-0009
57-0007
57-0008
57-0009
57-0016
57-0019
58-0007
58-0008
58-0009
58-0014
59-0011
60-0011
60-0012
60-0018
61-0016
61-0017
61-0018
61-0019
61-0020
61-0021
61-0022
62-0015
62-0016
62-0017
62-0018
62-0020
62-0025
62-0026
63-0011
63-0018
64-0010
64-0012
65-0011
65-0012
66-0013
66-0022
67-0014?
67-0026
68-0011
68-0012?
69-0018
70-0020
70-0033
71-0019
71-0028
71-0046
72-0025
72-0026
72-0036
72-0037
73-0024
73-0032
73-0049
74-0040
74-0041
74-0042
74-0044
74-0050
75-0061
75-0063
75-0064
76-0050
76-0062
76-0063
77-0043
77-0058
77-0059
77-0076
77-0077
77-0078
78-0028
78-0037
78-0049
78-0053
78-0054
79-0036
79-0056
80-0043
81-0022
81-0050
82-0039A
83-0003A

TEMPERATURE & SALINITY PROFILES (CTD)

64-0018
65-0021
66-0023
67-0008
67-0009
67-0022
67-0023
68-0022
68-0024
69-0030
69-0031
70-0031
71-0037
73-0031
73-0047
74-0043
77-0042
77-0057
77-0079
78-0029
78-0046
79-0051
79-0066
80-0042
80-0051
80-0052
81-0018
81-0021
81-0023
81-0024
81-0054
81-0057
81-0058
81-0059
81-0060
81-0061
81-0062
81-0063
81-0064
81-0065
81-0066
81-0067
81-0068
82-0025
82-0034
82-0036
82-0037
82-0038
82-0039B
82-0040
82-0045
82-0051
82-0052
82-0053
82-0054
82-0055
82-0056
82-0057
82-0058
82-0059
82-0060
82-0061
82-0062
82-0063
82-0064
82-0065
82-0066
82-0067
82-0068
83-0002
83-0003
83-0014
83-0015
83-0036
83-0037
83-0038
83-0039
84-0001
84-0002
84-0003
84-0005
84-0006
84-0007

TEMPERATURE ONLY

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73-0029
75-0069
77-0066
78-0047
78-0048
78-0050
78-0051
78-0052
78-0055
78-0056
79-0052
79-0053
79-0059
80-0055
81-0053

WAVES

68-0026
72-0043
76-0056
77-0064
77-0065
81-0021
82-0044
83-0035

WATER LEVEL & PRESSURE

03-0001
05-0002
05-0003
06-0002
07-0001
07-0002
09-0001
10-0002
10-0003
11-0001
11-0002
12-0001
13-0002
14-0003
15-0003
16-0003
22-0001
23-0002
24-0002
28-0003
30-0002
31-0003
35-0003
47-0003
49-0007
50-0010
51-0013
51-0014
51-0015
53-0016
53-0017
54-0016
54-0017
55-0022
56-0015
56-0016
56-0017
57-0017
57-0018
58-0012
59-0017
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61-0023
62-0027
63-0017
64-0018
64-0020
64-0021
64-0022
64-0023
65-0018
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66-0021
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73-0031
73-0040
73-0041
73-0042
74-0049
75-0070
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78-0057
79-0060
79-0065
80-0053
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81-0021
81-0055
81-0056
81-0058
81-0060
81-0061
81-0065
82-0037
82-0040?
82-0046
82-0051
82-0052
82-0053
83-0021
83-0034
83-0035
83-0036
84-0001
84-0002

LAGRANGIAN DRIFTERS

48-0009
52-0013
54-0012
55-0013
61-0022
62-0018
62-0020
63-0018
64-0012
64-0018
66-0023
67-0008
67-0023
69-0036
73-0048
77-0079
80-0042
81-0021
84-0006

EULERIAN CURRENTS

52-0013
54-0012
55-0013
61-0016
61-0022
62-0018
62-0020
64-0012
64-0018
66-0023
67-0023
68-0025
70-0037?
74-0042
76-0050
76-0062
76-0063
77-0042
77-0057
77-0076
77-0077
77-0079
77-0080
78-0046
79-0066
80-0042
81-0018
81-0021
81-0057
81-0058
81-0059
81-0060
81-0069
82-0034
82-0036
82-0037
82-0038
82-0039
82-0046
82-0051
82-0052
82-0053
82-0054
82-0055
82-0056
82-0057
82-0058
83-0014
83-0035
83-0036
84-0001
84-0002
84-0003

10.3 INDEX OF REFERENCES BY DATA-SET NUMBER

34-0001 Pacific Oceanographic Group, 1956. Physical and chemical data record - Dixon Entrance, Hecate Strait, Queen Charlotte Sound - 1934, 1937, 1938, 1951. Nanaimo, B.C. 56 p.

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37-0004 Pacific Oceanographic Group, 1956. Physical and chemical data record - Dixon Entrance, Hecate Strait, Queen Charlotte Sound - 1934, 1937, 1938, 1951. Nanaimo, B.C. 56 p.

Dodimead, A. J., 1980. A general review of the oceanography of the Queen Charlotte Sound-Hecate Strait-Dixon Entrance region. Can. Manuscript Rep. Fish. Aquat. Sci. 1574. 248 p.

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11. LISTING OF MEASUREMENT LOCATIONS AND OTHER PARAMETERS, BY YEAR

This section gives detailed listings of measurement locations and times for each of the data sets plotted on the maps in Section 9. Drifter data sets whose measurement locations were plotted as shaded areas only are not listed. The shore-station data are not discussed either; see Section 3.1 of the text for a discussion of them. There are separate listings for temperature-salinity data, current-meter data, water-level data and wave data. Each listing is ordered by data set number. An explanation of the format appears at the start of each listing. Only data collected within the area of this inventory are listed here; measurements taken elsewhere may be found in the inventories for those areas.

11.1 TEMPERATURE-SALINITY DATA

The listings contain the following information:

AREA	General area of station.
STN	Station number; wherever possible it is the station number assigned in the original data source.
LAT, LONG	In degrees and minutes.
YR	Year
MO	Month
DY	Day
HR	Hour; GMT unless specified otherwise
CAST TO	Maximum depth of data, in metres.
WATER DEPTH	In metres, if available.
PARAM MEAS	Parameters measured - conductivity, salinity, temperature. Each parameter measured is qualified by one of the following: X - measurements of this parameter were made CA - possible calibration problems S - suspect readings C - constant readings over parts of record 0 - zero or obviously bad readings
INSTR	Instrument type: AAND - Aanderaa current meter AMS - Applied Microsystems CTD APL - Applied Physics Lab. CTD BECK - Beckman BISS - Bisset Berman STD BOTT - bottle sample BUCK - bucket thermometer GLDL - Guildline CTD HYD - Hydrometer HYDR - Hydrolab salinometer HYT - Hytech induction salinometer INTO - InterOcean CTD MART - Martec data logger NB - Neil Brown PLES - Plessey CTD RS5 - Beckman RS5 YSI - Yellow Springs Instruments Co.
INT(HR)	The time period between repeat stations.
NO	The number of repeat stations.

Blank entries indicate unavailable or inapplicable data.
Some entries under the "area" heading may be missing if the stations are between name-designated areas.
? implies suspect data, but the only/best data available.

BOTTLE/CTD DATA SET NUMBER: 34-0001
YEAR:1934 VESSEL/AGENCY: U.WASH.,CATALYST

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
DIXON ENTRANCE	1	54	19.0	132	49.0	34	9	3	20	400	429		X	X	BOTT		
DIXON ENTRANCE	2	54	27.5	132	50.0	34	9	3	23	375	387		X	X	BOTT		
DIXON ENTRANCE	3	54	34.0	132	47.5	34	9	4	1	350	378		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 36-0003
YEAR:1936 VESSEL/AGENCY: PBS,ARMENTIERES

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. SOUND	F1	50	55.8	128	6.8	36	9	4	18	15	23		X	X	BOTT		
Q. C. SOUND	F2	50	58.5	128	21.2	36	9	4	19	50	146		X	X	BOTT		
Q. C. SOUND	F3	51	3.0	128	44.0	36	9	4	21	50	62		X	X	BOTT		
Q. C. SOUND	F4	51	7.2	129	6.5	36	9	4	23	130	140		X	X	BOTT		
Q. C. SOUND	F5	51	9.7	129	27.5	36	9	5	2	250	272		X	X	BOTT		
Q. C. SOUND	F6	51	11.7	129	51.5	36	9	5	5	673	822		X	X	BOTT		
Q. C. SOUND	F8	51	35.8	130	27.2	36	9	5	11	800	1441		X	X	BOTT		
Q. C. SOUND	F9	51	40.2	130	51.8	36	9	5	14	780			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 37-0004
YEAR:1937 VESSEL/AGENCY: U.WASH.,CATALYST

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
DIXON ENTRANCE	1	54	17.0	131	31.0	37	7	25	17	110	122		X	X	BOTT		
DIXON ENTRANCE	2	54	21.8	131	32.9	37	7	25	18	210	219		X	X	BOTT		
DIXON ENTRANCE	3	54	26.5	131	35.0	37	7	25	19	270	281		X	X	BOTT		
DIXON ENTRANCE	4	54	31.5	131	37.5	37	7	25	20	300	301		X	X	BOTT		
DIXON ENTRANCE	5	54	36.4	131	39.1	37	7	25	21	300	334		X	X	BOTT		
DIXON ENTRANCE	6	54	41.1	131	41.5	37	7	25	23	400	435		X	X	BOTT		
DIXON ENTRANCE	7	54	41.0	131	50.0	37	7	26		350	376		X	X	BOTT		
DIXON ENTRANCE	8	54	41.0	131	57.0	37	7	26	1	250	261		X	X	BOTT		
DIXON ENTRANCE	9	54	39.6	132	15.6	37	7	26	16	104	109		X	X	BOTT		
DIXON ENTRANCE	10	54	39.6	132	33.0	37	7	26	18	220	221		X	X	BOTT		
DIXON ENTRANCE	11	54	30.0	132	37.2	37	7	26	20	360	378		X	X	BOTT		
DIXON ENTRANCE	12	54	20.2	132	41.5	37	7	26	22	270	277		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 38-0002
YEAR:1938 VESSEL/AGENCY: POG,AMLAC

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
DIXON ENTRANCE	1	54	11.2	132	8.0	38	5	24	14	70	74		X	X	BOTT		
DIXON ENTRANCE	2	54	19.4	132	8.4	38	5	24	16	200	234		X	X	BOTT		
DIXON ENTRANCE	3	54	29.2	132	13.3	38	5	24	18	300	349		X	X	BOTT		

DIXON ENTRANCE	4	54	39.3	132	13.7	38	5	24	19	100	129		X	X	BOTT
DIXON ENTRANCE	5	54	35.6	132	25.2	38	5	24	20	100	129		X	X	BOTT
DIXON ENTRANCE	6	54	38.4	132	36.8	38	5	24	21	100	124		X	X	BOTT
DIXON ENTRANCE	7	54	30.8	132	35.4	38	5	24	23	300	362		X	X	BOTT
DIXON ENTRANCE	8	54	23.3	132	34.0	38	5	25	1	300	303		X	X	BOTT
DIXON ENTRANCE	9	54	11.9	132	33.6	38	5	25	3	100	111		X	X	BOTT
DIXON ENTRANCE	10	54	10.8	132	34.2	38	5	25	14	100	102		X	X	BOTT
DIXON ENTRANCE	11	54	21.8	132	35.4	38	5	25	16	275	292		X	X	BOTT
DIXON ENTRANCE	12	54	31.4	132	35.2	38	5	25	18	300	369		X	X	BOTT
DIXON ENTRANCE	13	54	37.5	132	35.6	38	5	25	19	100	120		X	X	BOTT
DIXON ENTRANCE	14	54	39.5	132	25.0	38	5	25	20	100	109		X	X	BOTT
DIXON ENTRANCE	15	54	39.4	132	12.8	38	5	25	22	100	115		X	X	BOTT
DIXON ENTRANCE	16	54	29.4	132	11.8	38	5	25	23	300	345		X	X	BOTT
DIXON ENTRANCE	17	54	19.0	132	10.2	38	5	26	1	200	230		X	X	BOTT
DIXON ENTRANCE	18	54	10.8	132	8.4	38	5	26	3	50	69		X	X	BOTT
DIXON ENTRANCE	19	54	15.1	133	7.2	38	5	29	14	75	89		X	X	BOTT
DIXON ENTRANCE	20	54	25.2	133	15.2	38	5	29	16	300	334		X	X	BOTT
DIXON ENTRANCE	21	54	33.2	133	20.1	38	5	29	18	300	345		X	X	BOTT
DIXON ENTRANCE	22	54	40.4	133	21.8	38	5	29	20	250	292		X	X	BOTT
DIXON ENTRANCE	23	54	40.8	133	07.0	38	5	29	21	150	186		X	X	BOTT
DIXON ENTRANCE	24	54	39.1	132	51.0	38	5	29	23	140	151		X	X	BOTT
DIXON ENTRANCE	25	54	31.6	132	54.7	38	5	30	01	300	382		X	X	BOTT
DIXON ENTRANCE	26	54	24.2	132	55.0	38	5	30	03	375	389		X	X	BOTT
DIXON ENTRANCE	27	54	14.0	132	55.0	38	5	30	05	140	153		X	X	BOTT
DIXON ENTRANCE	29	54	11.4	133	17.2	38	5	30	18	150	184		X	X	BOTT
DIXON ENTRANCE	30	54	16.2	133	11.0	38	5	30	20	300	367		X	X	BOTT
DIXON ENTRANCE	31	54	12.6	133	07.6	38	5	30	21	75	87		X	X	BOTT
DIXON ENTRANCE	32	54	12.9	131	53.4	38	6	1	16	100	129		X	X	BOTT
DIXON ENTRANCE	33	54	16.8	131	38.2	38	6	1	18	100	135		X	X	BOTT
DIXON ENTRANCE	34	54	26.4	131	42.4	38	6	1	19	250	274		X	X	BOTT
DIXON ENTRANCE	35	54	37.2	131	41.5	38	6	1	22	400	420		X	X	BOTT
DIXON ENTRANCE	36	54	41.8	131	56.7	38	6	2	1	300	365		X	X	BOTT
DIXON ENTRANCE	37	54	45.0	131	57.4	38	6	2	16	100	117		X	X	BOTT
DIXON ENTRANCE	38	54	46.1	131	46.6	38	6	2	17	300	374		X	X	BOTT
DIXON ENTRANCE	39	54	47.4	131	33.8	38	6	2	18	100	111		X	X	BOTT
DIXON ENTRANCE	40	54	41.0	131	23.3	38	6	2	20	200	219		X	X	BOTT
DIXON ENTRANCE	41	54	31.0	131	20.6	38	6	2	22	100	133		X	X	BOTT
DIXON ENTRANCE	42	54	24.8	131	13.0	38	6	2	23	100	129		X	X	BOTT
DIXON ENTRANCE	43	54	31.1	131	9.8	38	6	3		140	153		X	X	BOTT
DIXON ENTRANCE	44	54	39.2	131	8.8	38	6	3	2	150	193		X	X	BOTT
DIXON ENTRANCE	45	54	47.4	131	8.7	38	6	3	3	250	272		X	X	BOTT
DIXON ENTRANCE	46	54	41.6	130	51.0	38	6	3	5	200	248		X	X	BOTT
DIXON ENTRANCE	47	54	38.3	130	38.0	38	6	3	7	300	384		X	X	BOTT
CHATHAM SOUND	48	54	28.1	130	37.3	38	6	3	18	75	102		X	X	BOTT
CHATHAM SOUND	49	54	19.0	130	41.6	38	6	3	20	150	179		X	X	BOTT
CHATHAM SOUND	50	54	9.7	130	29.8	38	6	3	22	75	98		X	X	BOTT
DIXON ENTRANCE	51	54	19.0	130	57.6	38	6	5	15	100	122		X	X	BOTT
DIXON ENTRANCE	52	54	16.8	131	14.4	38	6	5	16	25	34		X	X	BOTT
DIXON ENTRANCE	53	54	11.3	131	29.2	38	6	5	18	20	23		X	X	BOTT
DIXON ENTRANCE	54	54	6.8	131	8.9	38	6	5	20	25	32		X	X	BOTT
HECATE STRAIT	55	54	2.3	130	59.1	38	6	5	21	50	58		X	X	BOTT
HECATE STRAIT	56	53	58.7	131	9.5	38	6	5	22	40	45		X	X	BOTT
HECATE STRAIT	57	53	54.1	131	24.4	38	6	6		20	25		X	X	BOTT
HECATE STRAIT	58	53	51.5	131	8.3	38	6	6	1	50	54		X	X	BOTT
HECATE STRAIT	59	53	47.4	130	55.7	38	6	6	2	75	80		X	X	BOTT
HECATE STRAIT	60	53	45.1	130	47.2	38	6	6	3	100	122		X	X	BOTT
HECATE STRAIT	61	53	43.5	130	37.9	38	6	6	4	100	109		X	X	BOTT

BOTTLE/CTD DATA SET NUMBER: 48-0009
YEAR:1948 VESSEL/AGENCY: EHKOLI

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
CHATHAM SOUND		54	17.0	130	45.0	48	06	26	17	0			X	X	BOTT		
CHATHAM SOUND	1	53	50.7	130	18.6	48	06	30	19	27	219		X	X	BOTT		
CHATHAM SOUND	1	53	52.0	130	03.8	48	09	08	20	46	128		X	X	BOTT		
CHATHAM SOUND	1	53	53.5	130	06.0	48	05	21	21	30	49		X	X	BOTT		
CHATHAM SOUND	1	53	54.0	130	06.0	48	05	21	17	30	65		X	X	BOTT		
CHATHAM SOUND	1	54	08.8	130	04.5	48	09	07	22	20			X	X	BOTT		
CHATHAM SOUND	1	54	08.8	130	04.6	48	05	28	04	15	18		X	X	BOTT		
CHATHAM SOUND	2	53	55.0	130	13.8	48	05	21	22	30	172		X	X	BOTT		
CHATHAM SOUND	2	53	55.0	130	14.0	48	05	21	18	30	172		X	X	BOTT		
CHATHAM SOUND	2	53	57.3	130	11.6	48	09	08	21	46	110		X	X	BOTT		
CHATHAM SOUND	2	53	57.5	130	12.0	48	05	28	19	27	101		X	X	BOTT		

CHATHAM SOUND	2	53 57.6	130 11.3	48 07 01 00	27	108	X	X	BOTT
CHATHAM SOUND	2	53 58.0	130 10.5	48 05 29 00	27	110	X	X	BOTT
CHATHAM SOUND	2	53 58.0	130 11.8	48 06 30 18	27	117	X	X	BOTT
CHATHAM SOUND	3	53 49.8	130 00.3	48 06 30 22	27	168	X	X	BOTT
CHATHAM SOUND	3	53 50.6	130 02.0	48 05 28 21	27	176	X	X	BOTT
CHATHAM SOUND	3	53 51.0	130 02.0	48 05 28 15	27	157	X	X	BOTT
CHATHAM SOUND	3	53 58.0	130 10.0	48 05 21 20	11	124	X	X	BOTT
CHATHAM SOUND	3	53 58.8	130 10.3	48 05 21 22	11	66	X	X	BOTT
CHATHAM SOUND	4	53 50.4	130 18.4	48 07 01 01	27	216	X	X	BOTT
CHATHAM SOUND	4	53 50.5	130 18.5	48 05 28 23	27	223	X	X	BOTT
CHATHAM SOUND	4	53 50.5	130 19.0	48 05 28 17	27	201	X	X	BOTT
CHATHAM SOUND	4	54 09.5	130 21.3	48 05 19 17	32	47	X	X	BOTT
CHATHAM SOUND	4	54 09.5	130 21.3	48 05 19 21	30	73	X	X	BOTT
CHATHAM SOUND	5	54 04.5	130 15.8	48 05 27 17	27	73	X	X	BOTT
CHATHAM SOUND	5	54 04.6	130 16.4	48 05 27 22	27	73	X	X	BOTT
CHATHAM SOUND	5	54 06.0	130 22.5	48 05 19 17	32	102	X	X	BOTT
CHATHAM SOUND	5	54 06.0	130 22.5	48 05 19 21	27	106	X	X	BOTT
CHATHAM SOUND	6	54 04.5	130 32.7	48 05 19 23	27	137	X	X	BOTT
CHATHAM SOUND	6	54 05.5	130 32.0	48 05 27 14	27	95	X	X	BOTT
CHATHAM SOUND	6	54 05.5	130 32.0	48 05 27 20	27	110	X	X	BOTT
CHATHAM SOUND	7	54 07.5	130 23.5	48 05 27 21	27	106	X	X	BOTT
CHATHAM SOUND	7	54 07.6	130 23.7	48 05 27 15	27	110	X	X	BOTT
CHATHAM SOUND	7	54 13.8	130 45.7	48 05 20 00	27	135	X	X	BOTT
CHATHAM SOUND	8	54 09.0	130 19.0	48 05 27 21	27	66	X	X	BOTT
CHATHAM SOUND	8	54 09.0	130 19.5	48 05 27 16	27	34	X	X	BOTT
CHATHAM SOUND	8	54 19.0	130 33.0	48 05 19 15	32	67	X	X	BOTT
CHATHAM SOUND	8	54 19.0	130 33.0	48 05 19 19	30	43	X	X	BOTT
CHATHAM SOUND	9	54 13.3	130 45.5	48 05 26 19	27	176	X	X	BOTT
CHATHAM SOUND	9	54 14.0	130 45.0	48 05 26 13	27		X	X	BOTT
CHATHAM SOUND	9	54 19.5	130 42.5	48 05 20 01	27	168	X	X	BOTT
CHATHAM SOUND	10	54 13.0	130 33.0	48 05 26 02	27	82	X	X	BOTT
CHATHAM SOUND	10	54 13.3	130 32.5	48 05 25 21	18	33	X	X	BOTT
CHATHAM SOUND	10	54 30.5	130 29.5	48 05 20 21	18	55	X	X	BOTT
CHATHAM SOUND	10	54 31.0	130 30.0	48 05 20 16	18	53	X	X	BOTT
CHATHAM SOUND	11	54 13.0	130 21.0	48 05 25 19	27	41	X	X	BOTT
CHATHAM SOUND	11	54 13.0	130 21.0	48 05 26 00	27	51	X	X	BOTT
CHATHAM SOUND	11	54 32.0	130 43.5	48 05 20 15	27	73	X	X	BOTT
CHATHAM SOUND	11	54 32.0	130 43.5	48 05 20 20	18	77	X	X	BOTT
CHATHAM SOUND	12	54 24.0	130 58.5	48 05 26 21	27	73	X	X	BOTT
CHATHAM SOUND	12	54 25.0	131 00.6	48 05 26 15	27	39	X	X	BOTT
CHATHAM SOUND	12	54 40.0	130 29.0	48 05 20 17	27	274	X	X	BOTT
CHATHAM SOUND	12	54 40.3	130 29.0	48 05 20 23	18		X	X	BOTT
CHATHAM SOUND	13	54 20.0	130 41.0	48 05 26 17	27	99	X	X	BOTT
CHATHAM SOUND	13	54 20.2	130 40.1	48 05 26 23	27	80	X	X	BOTT
CHATHAM SOUND	13	54 38.3	130 45.0	48 05 21 00	18	219	X	X	BOTT
CHATHAM SOUND	14	54 19.0	130 33.0	48 05 26 01	27	40	X	X	BOTT
CHATHAM SOUND	14	54 19.5	130 33.0	48 05 25 20	18	21	X	X	BOTT
CHATHAM SOUND	14	54 42.5	130 41.0	48 05 21 00	18	137	X	X	BOTT
CHATHAM SOUND	15	54 18.0	130 51.5	48 05 26 20	27	174	X	X	BOTT
CHATHAM SOUND	15	54 18.0	130 51.6	48 05 26 14	27	174	X	X	BOTT
CHATHAM SOUND	21	54 19.1	130 32.6	48 08 03 19	18	51	X	X	BOTT
CHATHAM SOUND	21	54 19.1	130 33.3	48 06 10 12	27	42	X	X	BOTT
CHATHAM SOUND	21	54 19.2	130 32.8	48 08 05 21	18	55	X	X	BOTT
CHATHAM SOUND	21	54 19.2	130 32.8	48 08 18 13	18	69	X	X	BOTT
CHATHAM SOUND	21	54 19.2	130 33.3	48 08 16 18	18	88	X	X	BOTT
CHATHAM SOUND	21	54 19.3	130 32.5	48 06 03 03	27	88	X	X	BOTT
CHATHAM SOUND	21	54 19.3	130 32.5	48 07 22 21	18	31	X	X	BOTT
CHATHAM SOUND	21	54 19.3	130 32.8	48 08 18 03	18	69	X	X	BOTT
CHATHAM SOUND	21	54 19.3	130 32.9	48 07 20 18	18	84	X	X	BOTT
CHATHAM SOUND	21	54 19.3	130 33.0	48 06 03 13	27	58	X	X	BOTT
CHATHAM SOUND	21	54 19.3	130 33.2	48 08 19 23	18	71	X	X	BOTT
CHATHAM SOUND	21	54 19.4	130 32.5	48 06 01 15	27	58	X	X	BOTT
CHATHAM SOUND	21	54 19.4	130 32.9	48 06 08 16	27	86	X	X	BOTT
CHATHAM SOUND	21	54 19.4	130 33.4	48 06 05 00	27	77	X	X	BOTT
CHATHAM SOUND	21	54 19.5	130 32.8	48 06 10 03	27	84	X	X	BOTT
CHATHAM SOUND	21	54 19.7	130 32.4	48 07 27 17	32	157	X	X	BOTT
CHATHAM SOUND	21	54 19.7	130 32.7	48 06 11 23	27	84	X	X	BOTT
CHATHAM SOUND	21	54 19.7	130 33.7	48 09 09 16	46	88	X	X	BOTT
CHATHAM SOUND	21	54 20.4	130 33.0	48 08 30 20	18	95	X	X	BOTT
CHATHAM SOUND	22	54 19.9	130 40.5	48 06 04 23	27	113	X	X	BOTT
CHATHAM SOUND	22	54 19.9	130 40.9	48 07 27 19	27	106	X	X	BOTT
CHATHAM SOUND	22	54 20.0	130 41.2	48 06 03 14	27	66	X	X	BOTT
CHATHAM SOUND	22	54 20.1	130 40.0	48 06 11 22	27	102	X	X	BOTT
CHATHAM SOUND	22	54 20.1	130 40.1	48 08 05 20	18	102	X	X	BOTT
CHATHAM SOUND	22	54 20.1	130 40.7	48 08 03 20	18	102	X	X	BOTT
CHATHAM SOUND	22	54 20.1	130 41.3	48 06 03 02	27	79	X	X	BOTT
CHATHAM SOUND	22	54 20.25	130 40.9	48 07 22 20	23	66	X	X	BOTT
CHATHAM SOUND	22	54 20.3	130 30.5	48 07 20 20	18	95	X	X	BOTT
CHATHAM SOUND	22	54 20.3	130 40.4	48 06 10 02	27	124	X	X	BOTT
CHATHAM SOUND	22	54 20.3	130 40.4	48 06 10 13	27	113	X	X	BOTT
CHATHAM SOUND	22	54 20.3	130 40.7	48 09 10 19	46	110	X	X	BOTT
CHATHAM SOUND	22	54 20.3	130 41.0	48 06 01 16	27	73	X	X	BOTT
CHATHAM SOUND	22	54 20.4	130 40.6	48 06 08 17	27	168	X	X	BOTT

CHATHAM SOUND	22	54	20.6	130	41.3	48	06	11	22	11	66	X	X	BOTT
CHATHAM SOUND	22	54	21.0	130	41.3	48	08	30	19	18	73	X	X	BOTT
CHATHAM SOUND	23	54	25.3	130	36.0	48	06	11	21	27	121	X	X	BOTT
CHATHAM SOUND	23	54	25.4	130	36.2	48	08	18	02	18	77	X	X	BOTT
CHATHAM SOUND	23	54	25.7	130	35.6	48	07	22	19	18	139	X	X	BOTT
CHATHAM SOUND	23	54	25.7	130	35.8	48	06	01	17	27	88	X	X	BOTT
CHATHAM SOUND	23	54	25.7	130	36.0	48	08	16	19	18	139	X	X	BOTT
CHATHAM SOUND	23	54	25.7	130	36.3	48	06	10	01	27	137	X	X	BOTT
CHATHAM SOUND	23	54	25.9	130	36.2	48	06	08	18	27	128	X	X	BOTT
CHATHAM SOUND	23	54	25.9	130	36.6	48	06	04	22	27	84	X	X	BOTT
CHATHAM SOUND	23	54	26.1	130	35.8	48	09	10	18	46	91	X	X	BOTT
CHATHAM SOUND	23	54	26.1	130	36.8	48	06	10	14	27	128	X	X	BOTT
CHATHAM SOUND	23	54	26.2	130	35.7	48	07	20	21	18	99	X	X	BOTT
CHATHAM SOUND	23	54	26.2	130	36.0	48	08	03	21	18	122	X	X	BOTT
CHATHAM SOUND	23	54	26.3	130	35.4	48	08	05	18	18	73	X	X	BOTT
CHATHAM SOUND	23	54	26.3	130	35.9	48	06	03	01	27	121	X	X	BOTT
CHATHAM SOUND	23	54	26.3	130	36.5	48	08	18	14	18	117	X	X	BOTT
CHATHAM SOUND	23	54	26.4	130	35.5	48	08	19	22	18	124	X	X	BOTT
CHATHAM SOUND	23	54	26.4	130	35.7	48	06	03	16	27	84	X	X	BOTT
CHATHAM SOUND	23	54	26.9	130	35.5	48	07	27	20	27	80	X	X	BOTT
CHATHAM SOUND	24	54	30.6	130	30.0	48	06	08	19	27	51	X	X	BOTT
CHATHAM SOUND	24	54	30.6	130	30.8	48	06	10	00	27	66	X	X	BOTT
CHATHAM SOUND	24	54	30.8	130	29.4	48	06	03	00	27	59	X	X	BOTT
CHATHAM SOUND	24	54	30.8	130	29.5	48	08	18	15	18	55	X	X	BOTT
CHATHAM SOUND	24	54	30.9	130	29.1	48	08	18	01	18	55	X	X	BOTT
CHATHAM SOUND	24	54	30.9	130	29.4	48	07	22	19	27	46	X	X	BOTT
CHATHAM SOUND	24	54	30.9	130	29.5	48	08	19	20	18	59	X	X	BOTT
CHATHAM SOUND	24	54	30.9	130	29.6	48	06	01	18	27	55	X	X	BOTT
CHATHAM SOUND	24	54	30.9	130	29.6	48	08	05	17	18	51	X	X	BOTT
CHATHAM SOUND	24	54	30.95	130	30.0	48	07	20	22	18	59	X	X	BOTT
CHATHAM SOUND	24	54	31.0	130	29.6	48	06	03	16	27	62	X	X	BOTT
CHATHAM SOUND	24	54	31.0	130	29.5	48	08	03	22	18	59	X	X	BOTT
CHATHAM SOUND	24	54	31.1	130	28.9	48	08	16	20	18	59	X	X	BOTT
CHATHAM SOUND	24	54	31.1	130	29.4	48	09	10	17	46	51	X	X	BOTT
CHATHAM SOUND	24	54	31.1	130	29.6	48	06	04	21	27	62	X	X	BOTT
CHATHAM SOUND	24	54	31.15	130	29.2	48	07	27	21	18	55	X	X	BOTT
CHATHAM SOUND	24	54	31.2	130	29.9	48	06	10	16	27	62	X	X	BOTT
CHATHAM SOUND	24	54	31.2	130	30.0	48	06	11	20	27	62	X	X	BOTT
CHATHAM SOUND	25	54	30.7	130	42.6	48	07	27	23	27	86	X	X	BOTT
CHATHAM SOUND	25	54	30.7	130	43.4	48	06	08	21	27	80	X	X	BOTT
CHATHAM SOUND	25	54	30.8	130	43.0	48	06	03	18	27	84	X	X	BOTT
CHATHAM SOUND	25	54	30.8	130	43.0	48	06	10	17	27	88	X	X	BOTT
CHATHAM SOUND	25	54	31.0	130	42.0	48	06	01	19	27	95	X	X	BOTT
CHATHAM SOUND	25	54	31.0	130	33.5	48	06	09	23	27	62	X	X	BOTT
CHATHAM SOUND	25	54	31.0	130	42.1	48	07	22	17	22	90	X	X	BOTT
CHATHAM SOUND	25	54	31.1	130	42.1	48	08	05	15	18	88	X	X	BOTT
CHATHAM SOUND	25	54	31.1	130	42.2	48	08	18	00	18	91	X	X	BOTT
CHATHAM SOUND	25	54	31.1	130	42.5	48	08	19	19	18	99	X	X	BOTT
CHATHAM SOUND	25	54	31.1	130	42.8	48	08	16	21	18	102	X	X	BOTT
CHATHAM SOUND	25	54	31.1	130	42.9	48	08	18	17	18	66	X	X	BOTT
CHATHAM SOUND	25	54	31.1	130	43.0	48	07	20	23	18	93	X	X	BOTT
CHATHAM SOUND	25	54	31.2	130	42.2	48	08	03	23	18	91	X	X	BOTT
CHATHAM SOUND	25	54	31.2	130	42.4	48	06	02	23	27	91	X	X	BOTT
CHATHAM SOUND	25	54	31.3	130	42.2	48	09	10	15	46	91	X	X	BOTT
CHATHAM SOUND	25	54	31.3	130	42.5	48	06	04	19	27	102	X	X	BOTT
CHATHAM SOUND	25	54	31.3	130	43.6	48	06	11	19	27	80	X	X	BOTT
CHATHAM SOUND	26	54	37.0	130	44.0	48	06	01	21	27	336	X	X	BOTT
CHATHAM SOUND	26	54	37.1	130	44.3	48	07	22	16	27	344	X	X	BOTT
CHATHAM SOUND	26	54	37.3	130	44.7	48	07	21	18	37	366	X	X	BOTT
CHATHAM SOUND	26	54	37.4	130	44.0	48	08	18	18	18	249	X	X	BOTT
CHATHAM SOUND	26	54	37.5	130	44.0	48	07	28	00	18	329	X	X	BOTT
CHATHAM SOUND	26	54	37.5	130	44.2	48	08	04	00	18	322	X	X	BOTT
CHATHAM SOUND	26	54	37.5	130	44.5	48	08	04	18	18	329	X	X	BOTT
CHATHAM SOUND	26	54	37.6	130	43.6	48	06	11	18	27	366	X	X	BOTT
CHATHAM SOUND	26	54	37.6	130	44.1	48	06	08	22	27	347	X	X	BOTT
CHATHAM SOUND	26	54	37.6	130	44.6	48	06	04	18	27	329	X	X	BOTT
CHATHAM SOUND	26	54	37.6	130	44.6	48	08	17	23	18	366	X	X	BOTT
CHATHAM SOUND	26	54	37.7	130	44.3	48	08	04	23	18		X	X	BOTT
CHATHAM SOUND	26	54	37.7	130	44.4	48	06	02	22	27	347	X	X	BOTT
CHATHAM SOUND	26	54	37.7	130	44.5	48	08	16	22	18	293	X	X	BOTT
CHATHAM SOUND	26	54	37.8	130	43.6	48	06	10	18	27	238	X	X	BOTT
CHATHAM SOUND	26	54	37.8	130	43.7	48	07	21	00	18	329	X	X	BOTT
CHATHAM SOUND	26	54	37.8	130	44.3	48	06	09	22	27	336	X	X	BOTT
CHATHAM SOUND	26	54	37.8	130	44.3	48	08	19	18	18	347	X	X	BOTT
CHATHAM SOUND	26	54	37.9	130	44.0	48	09	09	18	46	347	X	X	BOTT
CHATHAM SOUND	26	54	37.9	130	44.2	48	06	03	19	27	322	X	X	BOTT
CHATHAM SOUND	27	54	39.4	130	53.2	48	07	21	22	33	326	X	X	BOTT
CHATHAM SOUND	27	54	39.4	130	53.8	48	08	17	22	18	336	X	X	BOTT
CHATHAM SOUND	27	54	39.5	130	53.5	48	08	16	23	18	223	X	X	BOTT
CHATHAM SOUND	27	54	39.6	130	52.0	48	06	08	23	27	329	X	X	BOTT
CHATHAM SOUND	27	54	39.6	130	52.8	48	09	09	19	46	289	X	X	BOTT
CHATHAM SOUND	27	54	39.6	130	53.0	48	08	18	19	18	311	X	X	BOTT
CHATHAM SOUND	27	54	39.6	130	53.1	48	06	02	20	27	293	X	X	BOTT

CHATHAM SOUND	27	54	39.6	130	53.3	48	06	11	16	27		X	X	BOTT
CHATHAM SOUND	27	54	39.8	130	53.0	48	06	03	20	27	366	X	X	BOTT
CHATHAM SOUND	27	54	40.0	130	53.2	48	06	04	17	27		X	X	BOTT
CHATHAM SOUND	27	54	40.0	130	54.0	48	06	01	21	27	227	X	X	BOTT
CHATHAM SOUND	27	54	40.0	130	52.9	48	06	09	21	27	366	X	X	BOTT
CHATHAM SOUND	27	54	40.0	130	53.0	48	08	04	19	18	366	X	X	BOTT
CHATHAM SOUND	27	54	40.0	130	53.1	48	08	19	17	18	315	X	X	BOTT
CHATHAM SOUND	27	54	40.1	130	56.0	48	06	10	19	27		X	X	BOTT
CHATHAM SOUND	28	54	43.7	130	50.6	48	06	09	00	27	219	X	X	BOTT
CHATHAM SOUND	28	54	43.8	130	50.4	48	06	29	20	27	340	X	X	BOTT
CHATHAM SOUND	28	54	44.0	130	51.5	48	06	01	22	27	329	X	X	BOTT
CHATHAM SOUND	28	54	44.0	130	51.0	48	08	19	16	18	219	X	X	BOTT
CHATHAM SOUND	28	54	44.0	130	52.0	48	09	01	22	46	263	X	X	BOTT
CHATHAM SOUND	28	54	44.1	130	50.7	48	06	03	21	27	230	X	X	BOTT
CHATHAM SOUND	28	54	44.1	130	50.8	48	07	21	23	27	212	X	X	BOTT
CHATHAM SOUND	28	54	44.1	130	51.0	48	08	17	00	18	366	X	X	BOTT
CHATHAM SOUND	28	54	44.1	130	51.2	48	06	11	15	27	366	X	X	BOTT
CHATHAM SOUND	28	54	44.1	130	51.6	48	06	04	17	27	311	X	X	BOTT
CHATHAM SOUND	28	54	44.2	130	50.6	48	09	09	20	46	212	X	X	BOTT
CHATHAM SOUND	28	54	44.2	130	50.7	48	08	18	20	18	219	X	X	BOTT
CHATHAM SOUND	28	54	44.2	130	50.9	48	08	17	21	18	321	X	X	BOTT
CHATHAM SOUND	28	54	44.2	130	51.0	48	07	21	21	18	238	X	X	BOTT
CHATHAM SOUND	28	54	44.2	130	51.1	48	06	02	19	27	340	X	X	BOTT
CHATHAM SOUND	28	54	44.3	130	50.7	48	08	04	20	18	287	X	X	BOTT
CHATHAM SOUND	28	54	44.5	130	51.1	48	06	09	20	27	293	X	X	BOTT
CHATHAM SOUND	28	54	44.7	130	51.1	48	06	10	20	27	293	X	X	BOTT
CHATHAM SOUND	28	54	45.4	130	50.6	48	08	04	21	18	27	X	X	BOTT
CHATHAM SOUND	28	54	45.4	130	50.8	48	09	01	23	46	146	X	X	BOTT
CHATHAM SOUND	29	54	41.7	130	41.0	48	06	10	21	27	128	X	X	BOTT
CHATHAM SOUND	29	54	42.1	130	41.1	48	06	29	19	27	183	X	X	BOTT
CHATHAM SOUND	29	54	42.1	130	41.5	48	08	18	21	18	146	X	X	BOTT
CHATHAM SOUND	29	54	42.1	130	41.7	48	07	21	20	37	161	X	X	BOTT
CHATHAM SOUND	29	54	42.1	130	41.7	48	08	04	17	18	165	X	X	BOTT
CHATHAM SOUND	29	54	42.2	130	41.4	48	06	09	01	27	139	X	X	BOTT
CHATHAM SOUND	29	54	42.2	130	41.4	48	07	22	00	31	143	X	X	BOTT
CHATHAM SOUND	29	54	42.2	130	41.7	48	08	17	20	18	331	X	X	BOTT
CHATHAM SOUND	29	54	42.2	130	41.9	48	06	04	16	27	146	X	X	BOTT
CHATHAM SOUND	29	54	42.3	130	41.5	48	06	02	00	27	132	X	X	BOTT
CHATHAM SOUND	29	54	42.3	130	42.0	48	06	09	19	27	146	X	X	BOTT
CHATHAM SOUND	29	54	42.4	130	41.4	48	06	11	15	27	128	X	X	BOTT
CHATHAM SOUND	29	54	42.4	130	41.6	48	08	04	22	18	176	X	X	BOTT
CHATHAM SOUND	29	54	42.4	130	41.6	48	08	19	15	18	139	X	X	BOTT
CHATHAM SOUND	29	54	42.4	130	41.8	48	06	02	18	27	128	X	X	BOTT
CHATHAM SOUND	29	54	42.5	130	41.4	48	08	17	01	18		X	X	BOTT
CHATHAM SOUND	29	54	42.5	130	41.5	48	09	09	21	46	117	X	X	BOTT
CHATHAM SOUND	29	54	42.5	130	41.6	48	06	03	22	27	128	X	X	BOTT
CHATHAM SOUND	30	54	40.3	130	30.0	48	08	17	18	18	457	X	X	BOTT
CHATHAM SOUND	30	54	40.9	130	30.2	48	08	04	15	18	431	X	X	BOTT
CHATHAM SOUND	30	54	40.9	130	30.6	48	08	17	02	18	439	X	X	BOTT
CHATHAM SOUND	30	54	40.9	130	30.7	48	08	18	22	18	713	X	X	BOTT
CHATHAM SOUND	30	54	41.0	130	30.6	48	06	03	23	27		X	X	BOTT
CHATHAM SOUND	30	54	41.0	130	30.3	48	06	29	18	27	274	X	X	BOTT
CHATHAM SOUND	30	54	41.0	130	30.4	48	06	09	02	27		X	X	BOTT
CHATHAM SOUND	30	54	41.0	130	30.5	48	07	22	03	27	664	X	X	BOTT
CHATHAM SOUND	30	54	41.0	130	30.5	48	08	05	01	18	453	X	X	BOTT
CHATHAM SOUND	30	54	41.0	130	31.6	48	06	11	14	27	256	X	X	BOTT
CHATHAM SOUND	30	54	41.1	130	30.0	48	06	09	18	27	439	X	X	BOTT
CHATHAM SOUND	30	54	41.1	130	30.3	48	06	02	01	27	421	X	X	BOTT
CHATHAM SOUND	30	54	41.1	130	30.6	48	09	09	22	46	439	X	X	BOTT
CHATHAM SOUND	30	54	41.2	130	30.2	48	06	02	17	27		X	X	BOTT
CHATHAM SOUND	30	54	41.2	130	30.2	48	06	04	15	27		X	X	BOTT
CHATHAM SOUND	30	54	41.2	130	30.3	48	08	19	14	18	443	X	X	BOTT
CHATHAM SOUND	30	54	41.2	130	31.0	48	06	10	22	27		X	X	BOTT
CHATHAM SOUND	30	54	41.3	130	30.1	48	07	21	16	37		X	X	BOTT
CHATHAM SOUND	31	54	37.3	130	30.4	48	06	11	13	27	62	X	X	BOTT
CHATHAM SOUND	31	54	37.6	130	30.6	48	06	09	17	27	165	X	X	BOTT
CHATHAM SOUND	31	54	37.7	130	30.9	48	06	10	23	27	353	X	X	BOTT
CHATHAM SOUND	31	54	37.8	130	30.4	48	06	02	01	27	102	X	X	BOTT
CHATHAM SOUND	31	54	37.8	130	31.2	48	06	09	02	27	366	X	X	BOTT
CHATHAM SOUND	31	54	37.8	130	31.4	48	06	04	14	27	329	X	X	BOTT
CHATHAM SOUND	31	54	37.9	130	30.8	48	07	22	14	24	238	X	X	BOTT
CHATHAM SOUND	31	54	38.1	130	30.6	48	08	04	14	18	165	X	X	BOTT
CHATHAM SOUND	31	54	38.1	130	30.7	48	07	22	04	29	172	X	X	BOTT
CHATHAM SOUND	31	54	38.1	130	30.8	48	06	02	16	27		X	X	BOTT
CHATHAM SOUND	31	54	38.15	130	30.9	48	08	18	23	18	223	X	X	BOTT
CHATHAM SOUND	31	54	38.2	130	31.0	48	08	04	02	18	172	X	X	BOTT
CHATHAM SOUND	31	54	38.3	130	30.2	48	07	21	15	18	154	X	X	BOTT
CHATHAM SOUND	31	54	38.3	130	30.4	48	08	17	03	18		X	X	BOTT
CHATHAM SOUND	31	54	38.3	130	30.5	48	06	03	23	27	201	X	X	BOTT
CHATHAM SOUND	31	54	38.3	130	30.8	48	07	28	01	27	186	X	X	BOTT
CHATHAM SOUND	31	54	38.4	130	30.3	48	09	09	23	46	190	X	X	BOTT
CHATHAM SOUND	31	54	38.4	130	30.6	48	08	19	13	18	186	X	X	BOTT
CHATHAM SOUND	31	54	38.5	130	30.5	48	08	05	13	18	190	X	X	BOTT

CHATHAM SOUND	31	54	38.5	130	30.5	48	08	17	17	18	457	X	X	BOTT
CHATHAM SOUND	31	54	38.5	130	31.0	48	08	05	01	18	168	X	X	BOTT
CHATHAM SOUND	32	54	19.7	130	36.0	48	07	20	19	18	161	X	X	BOTT
CHATHAM SOUND	32	54	19.7	130	36.4	48	07	22	21	18	163	X	X	BOTT
CHATHAM SOUND	32	54	19.7	130	37.0	48	08	03	19	18	168	X	X	BOTT
CHATHAM SOUND	32	54	19.9	130	36.1	48	07	27	18	37	157	X	X	BOTT
CHATHAM SOUND	32	54	19.9	130	36.4	48	08	05	20	18	113	X	X	BOTT
CHATHAM SOUND	32	54	20.0	130	36.8	48	08	30	20	18	205	X	X	BOTT
CHATHAM SOUND	33	54	36.1	130	36.6	48	09	09	23	46	238	X	X	BOTT
CHATHAM SOUND	33	54	36.8	130	37.6	48	07	22	02	27	326	X	X	BOTT
CHATHAM SOUND	33	54	36.9	130	37.4	48	07	21	18	33	318	X	X	BOTT
CHATHAM SOUND	33	54	37.0	130	37.3	48	08	04	01	18	340	X	X	BOTT
CHATHAM SOUND	33	54	37.3	130	38.0	48	07	22	15	22	351	X	X	BOTT
CHATHAM SOUND	33	54	37.5	130	36.4	48	07	28	01	27	366	X	X	BOTT
CHATHAM SOUND	33	54	37.5	130	37.1	48	08	05	00	18	373	X	X	BOTT
CHATHAM SOUND	33	54	37.6	130	37.0	48	08	17	01	18	384	X	X	BOTT
CHATHAM SOUND	33	54	37.6	130	37.0	48	08	18	21	18	399	X	X	BOTT
CHATHAM SOUND	33	54	37.9	130	36.7	48	08	17	19	18	402	X	X	BOTT
CHATHAM SOUND	33	54	38.0	130	36.6	48	08	19	14	18	410	X	X	BOTT
CHATHAM SOUND	34	54	39.5	130	31.3	48	07	22	03	26	592	X	X	BOTT
CHATHAM SOUND	34	54	39.8	130	31.0	48	08	04	15	18	607	X	X	BOTT
CHATHAM SOUND	34	54	39.8	130	31.2	48	08	05	01	18	611	X	X	BOTT
CHATHAM SOUND	34	54	40.1	130	29.6	48	07	21	16	27		X	X	BOTT
CHATHAM SOUND	35	54	39.8	130	37.6	48	07	22	01	27	326	X	X	BOTT
CHATHAM SOUND	35	54	40.0	130	42.7	48	08	04	22	18	439	X	X	BOTT
CHATHAM SOUND	35	54	40.1	130	42.5	48	08	04	17	18		X	X	BOTT
CHATHAM SOUND	35	54	40.3	130	42.9	48	07	21	19	37		X	X	BOTT
CHATHAM SOUND	36	54	41.7	130	52.4	48	09	09	20	46	384	X	X	BOTT
CHATHAM SOUND	36	54	41.7	130	52.6	48	08	18	19	18	483	X	X	BOTT
CHATHAM SOUND	36	54	42.0	130	52.2	48	07	21	21	18	329	X	X	BOTT
CHATHAM SOUND	36	54	42.0	130	52.2	48	08	16	23	18		X	X	BOTT
CHATHAM SOUND	36	54	42.1	130	52.0	48	08	17	21	18	331	X	X	BOTT
CHATHAM SOUND	36	54	42.15	130	52.3	48	07	21	23	27	347	X	X	BOTT
CHATHAM SOUND	36	54	42.2	130	52.1	48	08	19	16	18	347	X	X	BOTT
CHATHAM SOUND	36	54	42.3	130	52.9	48	08	04	19	183	351	X	X	BOTT
CHATHAM SOUND	37	54	16.3	130	34.5	48	07	22	22	18	99	X	X	BOTT
CHATHAM SOUND	38	54	14.0	130	38.1	48	07	22	23	18	84	X	X	BOTT
CHATHAM SOUND	38	54	14.3	130	38.0	48	08	11	02	18	113	X	X	BOTT
CHATHAM SOUND	38	54	14.4	130	38.5	48	08	11	17	18	84	X	X	BOTT
CHATHAM SOUND	38	54	14.6	130	38.3	48	08	12	22	18	80	X	X	BOTT
CHATHAM SOUND	39	54	16.5	130	43.8	48	07	23	00	27	161	X	X	BOTT
CHATHAM SOUND	40	54	09.4	130	37.2	48	08	10	21	18	77	X	X	BOTT
CHATHAM SOUND	40	54	09.5	130	37.4	48	08	11	23	18	95	X	X	BOTT
CHATHAM SOUND	40	54	09.7	130	37.5	48	08	12	17	18	102	X	X	BOTT
CHATHAM SOUND	41	54	12.7	130	20.8	48	07	30	23	18	55	X	X	BOTT
CHATHAM SOUND	41	54	12.8	130	20.6	48	06	17	23	27	40	X	X	BOTT
CHATHAM SOUND	41	54	12.8	130	20.6	48	06	18	01	27	40	X	X	BOTT
CHATHAM SOUND	41	54	12.8	130	21.0	48	08	10	16	18	62	X	X	BOTT
CHATHAM SOUND	41	54	12.8	130	21.1	48	08	05	23	18	49	X	X	BOTT
CHATHAM SOUND	41	54	12.9	130	20.8	48	07	30	17	18	58	X	X	BOTT
CHATHAM SOUND	41	54	12.9	130	21.0	48	08	12	12	18	51	X	X	BOTT
CHATHAM SOUND	41	54	12.9	130	21.0	48	08	14	02	18	73	X	X	BOTT
CHATHAM SOUND	41	54	12.9	130	21.2	48	06	16	02	27	62	X	X	BOTT
CHATHAM SOUND	41	54	13.0	130	21.2	48	06	14	16	27	40	X	X	BOTT
CHATHAM SOUND	41	54	13.1	130	20.7	48	08	03	16	18	62	X	X	BOTT
CHATHAM SOUND	41	54	13.1	130	21.1	48	08	12	03	18	73	X	X	BOTT
CHATHAM SOUND	42	54	08.4	130	19.6	48	06	18	23	27	69	X	X	BOTT
CHATHAM SOUND	42	54	08.5	130	19.7	48	08	10	17	18	55	X	X	BOTT
CHATHAM SOUND	42	54	08.6	130	19.8	48	06	16	02	27	48	X	X	BOTT
CHATHAM SOUND	42	54	08.9	130	19.9	48	06	18	01	27	55	X	X	BOTT
CHATHAM SOUND	42	54	09.0	130	19.8	48	08	12	13	18	55	X	X	BOTT
CHATHAM SOUND	42	54	09.0	130	20.3	48	06	14	17	27	48	X	X	BOTT
CHATHAM SOUND	42	54	09.1	130	19.5	48	08	12	03	18	55	X	X	BOTT
CHATHAM SOUND	42	54	09.1	130	20.2	48	08	13	22	18	62	X	X	BOTT
CHATHAM SOUND	43	54	04.3	130	15.7	48	09	08	22	46	102	X	X	BOTT
CHATHAM SOUND	43	54	04.3	130	16.0	48	06	14	18	27	73	X	X	BOTT
CHATHAM SOUND	43	54	04.4	130	15.6	48	06	16	01	27	102	X	X	BOTT
CHATHAM SOUND	43	54	04.4	130	16.1	48	08	13	21	18	108	X	X	BOTT
CHATHAM SOUND	43	54	04.5	130	15.7	48	06	18	02	27	77	X	X	BOTT
CHATHAM SOUND	43	54	04.5	130	16.0	48	08	10	18	18	88	X	X	BOTT
CHATHAM SOUND	43	54	04.6	130	15.6	48	08	12	14	18	77	X	X	BOTT
CHATHAM SOUND	43	54	04.7	130	16.2	48	06	18	22	27	69	X	X	BOTT
CHATHAM SOUND	43	54	05.3	130	16.5	48	08	12	02	18		X	X	BOTT
CHATHAM SOUND	44	54	07.1	130	25.0	48	06	14	19	27	110	X	X	BOTT
CHATHAM SOUND	44	54	07.2	130	24.8	48	08	13	20	18	110	X	X	BOTT
CHATHAM SOUND	44	54	07.2	130	25.1	48	07	30	19	18	80	X	X	BOTT
CHATHAM SOUND	44	54	07.3	130	25.2	48	06	16	00	27	110	X	X	BOTT
CHATHAM SOUND	44	54	07.3	130	25.2	48	06	18	03	27	110	X	X	BOTT
CHATHAM SOUND	44	54	07.3	130	25.5	48	08	10	19	18	110	X	X	BOTT
CHATHAM SOUND	44	54	07.4	130	24.7	48	06	18	21	27	113	X	X	BOTT
CHATHAM SOUND	44	54	07.4	130	25.1	48	09	09	00	46	110	X	X	BOTT
CHATHAM SOUND	44	54	07.5	130	25.6	48	08	12	15	18	110	X	X	BOTT
CHATHAM SOUND	44	54	07.6	130	25.4	48	08	12	00	18	113	X	X	BOTT

CHATHAM SOUND	45	54	04.8	130	32.7	48	08	13	20	18	148	X	X	BOTT		
CHATHAM SOUND	45	54	05.2	130	37.2	48	09	09	01	46	146	X	X	BOTT		
CHATHAM SOUND	45	54	05.3	130	32.2	48	08	12	16	18	110	X	X	BOTT		
CHATHAM SOUND	45	54	05.3	130	32.5	48	06	15	23	27	110	X	X	BOTT		
CHATHAM SOUND	45	54	05.4	130	32.2	48	06	17	17	27	117	X	X	BOTT		
CHATHAM SOUND	45	54	05.4	130	32.5	48	08	12	00	18	121	X	X	BOTT		
CHATHAM SOUND	45	54	05.5	130	32.6	48	06	14	19	27	110	X	X	BOTT		
CHATHAM SOUND	45	54	05.5	130	32.6	48	06	18	20	27	117	X	X	BOTT		
CHATHAM SOUND	45	54	05.5	130	32.7	48	08	10	20	18	154	X	X	BOTT		
CHATHAM SOUND	46	54	12.9	130	43.5	48	07	23	00	25	91	X	X	BOTT		
CHATHAM SOUND	46	54	13.2	130	43.1	48	06	17	18	27	150	X	X	BOTT		
CHATHAM SOUND	46	54	13.2	130	44.1	48	08	10	22	18	146	X	X	BOTT		
CHATHAM SOUND	46	54	13.3	130	43.4	48	06	18	18	27	161	X	X	BOTT		
CHATHAM SOUND	46	54	13.4	130	42.5	48	08	11	22	18	155	X	X	BOTT		
CHATHAM SOUND	46	54	13.4	130	42.9	48	06	15	21	27	146	X	X	BOTT		
CHATHAM SOUND	46	54	13.4	130	43.1	48	08	12	17	18	154	X	X	BOTT		
CHATHAM SOUND	46	54	13.5	130	43.3	48	09	10	21	46	157	X	X	BOTT		
CHATHAM SOUND	46	54	13.7	130	42.9	48	06	14	22	27	146	X	X	BOTT		
CHATHAM SOUND	47	54	17.4	130	49.1	48	08	11	21	18	86	X	X	BOTT		
CHATHAM SOUND	47	54	17.9	130	49.5	48	08	12	18	18	154	X	X	BOTT		
CHATHAM SOUND	47	54	17.9	130	50.1	48	06	14	23	27	128	X	X	BOTT		
CHATHAM SOUND	47	54	18.1	130	49.0	48	08	10	23	123	143	X	X	BOTT		
CHATHAM SOUND	47	54	18.1	130	49.5	48	09	10	20	46	143	X	X	BOTT		
CHATHAM SOUND	47	54	18.1	130	49.9	48	06	15	19	27	150	X	X	BOTT		
CHATHAM SOUND	47	54	18.2	130	49.5	48	06	18	17	27	146	X	X	BOTT		
CHATHAM SOUND	47	54	18.2	130	50.2	48	06	17	20	27	146	X	X	BOTT		
CHATHAM SOUND	48	54	19.8	130	40.0	48	08	11	00	18	117	X	X	BOTT		
CHATHAM SOUND	48	54	20.1	130	40.5	48	08	12	19	18	101	X	X	BOTT		
CHATHAM SOUND	48	54	20.1	130	40.9	48	06	18	15	27	110	X	X	BOTT		
CHATHAM SOUND	48	54	20.1	130	41.0	48	08	11	20	18	106	X	X	BOTT		
CHATHAM SOUND	48	54	20.3	130	40.1	48	06	15	00	27	102	X	X	BOTT		
CHATHAM SOUND	48	54	20.4	130	40.7	48	06	17	21	27	84	X	X	BOTT		
CHATHAM SOUND	48	54	21.3	130	40.4	48	06	15	18	27	106	X	X	BOTT		
CHATHAM SOUND	49	54	19.0	130	33.0	48	08	11	01	18	55	X	X	BOTT		
CHATHAM SOUND	49	54	19.2	130	30.0	48	08	11	18	18	73	X	X	BOTT		
CHATHAM SOUND	49	54	19.3	130	32.9	48	08	12	21	18	91	X	X	BOTT		
CHATHAM SOUND	49	54	19.3	130	33.0	48	06	15	01	27	91	X	X	BOTT		
CHATHAM SOUND	49	54	19.4	130	32.5	48	06	15	18	27	88	X	X	BOTT		
CHATHAM SOUND	49	54	19.4	130	33.2	48	06	18	15	27	90	X	X	BOTT		
CHATHAM SOUND	49	54	19.5	130	32.8	48	06	17	21	27	77	X	X	BOTT		
CHATHAM SOUND	50	54	12.8	130	31.2	48	08	11	03	18		X	X	BOTT		
CHATHAM SOUND	50	54	13.1	130	30.7	48	08	11	17	18	91	X	X	BOTT		
CHATHAM SOUND	50	54	13.1	130	31.3	48	06	18	14	27	91	X	X	BOTT		
CHATHAM SOUND	50	54	13.2	130	31.1	48	06	15	02	27	91	X	X	BOTT		
CHATHAM SOUND	50	54	13.2	130	31.1	48	06	15	16	27	88	X	X	BOTT		
CHATHAM SOUND	50	54	13.3	130	31.3	48	08	12	22	18	84	X	X	BOTT		
CHATHAM SOUND	50	54	13.5	130	30.8	48	06	17	22	27	73	X	X	BOTT		
CHATHAM SOUND	51	54	21.8	130	35.5	48	06	21	18	27	73	X	X	BOTT		
CHATHAM SOUND	52	54	30.1	130	36.0	48	07	27	22	27	113	X	X	BOTT		
CHATHAM SOUND	52	54	30.7	130	36.0	48	08	05	16	18	110	X	X	BOTT		
CHATHAM SOUND	52	54	30.8	130	35.6	48	07	22	18	22	95	X	X	BOTT		
CHATHAM SOUND	52	54	31.1	130	36.2	48	08	03	22	18	112	X	X	BOTT		
CHATHAM SOUND	52	54	31.3	130	35.3	48	09	10	16	46	121	X	X	BOTT		
CHATHAM SOUND	52	54	31.3	130	36.3	48	06	21	20	27	121	X	X	BOTT		
CHATHAM SOUND	52	54	31.3	130	36.3	48	07	20	22	18	115	X	X	BOTT		
CHATHAM SOUND	53	54	40.5	130	42.5	48	06	21	21	27		X	X	BOTT		
CHATHAM SOUND	54	54	43.3	130	55.8	48	06	21	22	27	347	X	X	BOTT		
CHATHAM SOUND	54	54	43.7	130	55.1	48	06	22	17	27	260	X	X	BOTT		
CHATHAM SOUND	55	54	44.3	131	06.9	48	06	22	18	27	260	X	X	BOTT		
CHATHAM SOUND	55	54	44.7	131	10.9	48	06	22	00	27	274	X	X	BOTT		
CHATHAM SOUND	56	54	53.4	131	05.9	48	06	22	19	27	201	X	X	BOTT		
CHATHAM SOUND	57	55	01.8	131	07.3	48	06	22	20	27	289	X	X	BOTT		
CHATHAM SOUND	58	55	22.9	131	57.1	48	06	24	17	27	475	X	X	BOTT		
CHATHAM SOUND	59	55	02.4	131	48.4	48	06	24	20	27		X	X	BOTT		
CHATHAM SOUND	60	54	48.2	131	45.1	48	06	24	22	27		X	X	BOTT		
CHATHAM SOUND	61	54	42.3	131	37.5	48	06	24	23	27	198	X	X	BOTT		
CHATHAM SOUND	62	54	37.0	131	48.0	48	06	25	00	27	347	X	X	BOTT		
CHATHAM SOUND	62	54	37.5	131	50.0	48	06	25	16	27	457	X	X	BOTT		
CHATHAM SOUND	63	54	27.7	131	50.0	48	06	25	18	27	466	X	X	BOTT		
CHATHAM SOUND	64	54	17.0	131	32.0	48	06	25	20	0	73	X	X	BOTT		
CHATHAM SOUND	65	54	17.5	131	05.2	48	06	26	15	27	84	X	X	BOTT		
CHATHAM SOUND	66	54	14.7	130	30.7	48	06	26	18	27	128	X	X	BOTT		
CHATHAM SOUND	67	54	58.7	130	02.5	48	06	29	15	27	267	X	X	BOTT		
CHATHAM SOUND	67	54	59.0	130	03.0	48	06	29	08	27	267	X	X	BOTT		
CHATHAM SOUND	68	54	52.4	130	12.2	48	06	29	16	27	439	X	X	BOTT		
CHATHAM SOUND	69	54	45.3	130	23.0	48	06	29	17	27	274	X	X	BOTT		
CHATHAM SOUND	70	54	41.9	130	35.4	48	08	04	16	18	106	X	X	BOTT		
CHATHAM SOUND	71	54	35.1	130	35.9	48	08	05	14	18	186	X	X	BOTT		
CHATHAM SOUND	72	54	26.8	130	30.1	48	08	05	18	18	40	X	X	BOTT		
CHATHAM SOUND	73	54	26.1	130	39.7	48	08	05	19	18		X	X	BOTT		
CHATHAM SOUND	76	54	42.3	130	34.1	48	08	31	17	18	37	X	X	BOTT	1	5
CHATHAM SOUND	80	54	12.4	130	22.9	48	07	03	01	27	36	X	X	BOTT	1	17
CHATHAM SOUND	81	54	21.8	130	35.2	48	07	04	17	27	77	X	X	BOTT	2	14

CHATHAM SOUND	82	54	09.2	130	31.2	48	07	06	00	27	44		X	X	BOTT	1	26
CHATHAM SOUND	82	54	10.6	130	28.2	48	07	23	02	18			X	X	BOTT	1	17
CHATHAM SOUND	84	54	40.5	130	33.3	48	09	01	16	18	274		X	X	BOTT		
CHATHAM SOUND	85	54	42.1	130	32.6	48	09	01	16	18	110		X	X	BOTT		
CHATHAM SOUND	86	54	43.9	130	37.0	48	09	01	17	18			X	X	BOTT		
CHATHAM SOUND	87	54	42.0	130	39.7	48	09	01	17	18	194		X	X	BOTT		
CHATHAM SOUND	88	54	42.9	130	41.3	48	09	01	18	18	95		X	X	BOTT		
CHATHAM SOUND	89	54	41.5	130	45.7	48	09	01	21	18	201		X	X	BOTT		
CHATHAM SOUND	90	54	45.8	130	47.0	48	09	01	21	18	84		X	X	BOTT		
CHATHAM SOUND	91	54	32.2	130	45.7	48	09	10	00	46	77		X	X	BOTT		
CHATHAM SOUND	92	54	28.9	130	53.0	48	09	10	02	46	223		X	X	BOTT		
CHATHAM SOUND	93	54	15.3	130	36.0	48	09	10	21	46	80		X	X	BOTT		
CHATHAM SOUND	94	54	15.4	130	27.7	48	09	09	02	46	59		X	X	BOTT		
CHATHAM SOUND	96	54	00.2	130	06.2	48	09	07	21	18	22		X	X	BOTT		
CHATHAM SOUND	97	54	03.9	130	06.4	48	09	07	22	27	27		X	X	BOTT		
CHATHAM SOUND	101	54	04.2	130	15.3	48	07	29	17	23	91		X	X	BOTT		
CHATHAM SOUND	102	54	07.1	130	17.7	48	07	29	18	23	69		X	X	BOTT		
CHATHAM SOUND	103	54	07.2	130	15.5	48	07	29	18	14	26		X	X	BOTT		
CHATHAM SOUND	104	54	08.95	130	21.8	48	07	29	23	18	66		X	X	BOTT		
CHATHAM SOUND	105	54	10.8	130	21.0	48	07	29	23	18	73		X	X	BOTT		
CHATHAM SOUND	105	54	11.1	130	21.2	48	07	30	22	18	73		X	X	BOTT		
CHATHAM SOUND	105	54	11.3	130	21.0	48	07	30	18	18	55		X	X	BOTT		
CHATHAM SOUND	106	54	08.7	130	17.8	48	07	30	18	18	48		X	X	BOTT		
CHATHAM SOUND	106	54	09.0	130	18.4	48	09	08	23	37	45		X	X	BOTT		
CHATHAM SOUND	107	54	08.4	130	21.7	48	07	30	19	18	69		X	X	BOTT		
CHATHAM SOUND	109	54	09.3	130	30.0	48	07	30	20	18	66		X	X	BOTT		
CHATHAM SOUND	109	54	09.5	130	30.1	48	09	09	01	46	102		X	X	BOTT		
CHATHAM SOUND	110	54	10.2	130	33.0	48	07	30	20	18	88		X	X	BOTT		
CHATHAM SOUND	111	54	12.5	130	29.1	48	07	30	21	18	113		X	X	BOTT		
CHATHAM SOUND	111	54	12.6	130	28.6	48	08	05	22	18	111		X	X	BOTT		
CHATHAM SOUND	111	54	13.7	130	28.2	48	08	03	17	18			X	X	BOTT		
CHATHAM SOUND	112	54	14.1	130	25.4	48	07	30	22	18	51		X	X	BOTT		
CHATHAM SOUND	112	54	14.2	130	25.1	48	08	05	22	18	59		X	X	BOTT		
CHATHAM SOUND	112	54	14.2	130	25.6	48	08	03	17	18	44		X	X	BOTT		
CHATHAM SOUND	113	54	08.2	130	17.3	48	08	07	20	18			X	X	BOTT	3	8
CHATHAM SOUND	113	54	13.0	130	23.4	48	07	30	22	18	51		X	X	BOTT		
CHATHAM SOUND	114	54	09.7	130	26.8	48	08	13	19	18	154		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 50-0006
YEAR:1950 VESSEL/AGENCY: POG,CEDARWOOD

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
Q. C. SOUND	1	50	59.0	128	27.0	50	9	16	3	64			X	X	BOTT		
Q. C. SOUND	2	51	0.0	129	6.0	50	9	17	6	91			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 51-0009
YEAR:1951 VESSEL/AGENCY: UBC,EHKOLI

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
B.C. INLETS	66	51	5.8	127	28.8	51	6	8	21	54	82		X	X	BOTT		
B.C. INLETS	67	51	2.9	127	22.1	51	6	8	22	45	67		X	X	BOTT		
B.C. INLETS	68	51	3.2	127	15.1	51	6	9	15	411	448		X	X	BOTT		
B.C. INLETS	69	51	4.0	126	59.6	51	6	9	19	548	576		X	X	BOTT		
B.C. INLETS	70	51	6.2	126	46.8	51	6	9	22	228	310		X	X	BOTT		
B.C. INLETS	71	51	9.5	126	41.6	51	6	10		155	201		X	X	BOTT		
B.C. INLETS	72	51	6.5	126	41.6	51	6	10	15	18	195		X	X	BOTT		
B.C. INLETS	73	51	6.4	126	46.8	51	6	10	16	18	283		X	X	BOTT		
B.C. INLETS	74	51	4.5	126	53.1	51	6	10	17	91			X	X	BOTT		
B.C. INLETS	75	51	4.2	127	0.1	51	6	10	19	91	621		X	X	BOTT		
B.C. INLETS	76	51	3.5	127	7.8	51	6	10	20	557	524		X	X	BOTT		
B.C. INLETS	77	51	3.0	127	22.2	51	6	10	23	45	82		X	X	BOTT		
B.C. INLETS	78	51	7.4	127	33.0	51	6	11	16	45	79		X	X	BOTT		
B.C. INLETS	79	51	8.0	127	33.5	51	6	11	16	182	188		X	X	BOTT		

B.C. INLETS	80	51	8.0	127	18.7	51	6	11	19	182	292	X	X	BOTT
B.C. INLETS	81	51	7.2	127	4.5	51	6	11	23	320	350	X	X	BOTT
B.C. INLETS	82	51	7.0	127	0.0	51	6	12	15	274	310	X	X	BOTT
B.C. INLETS	83	51	7.0	127	6.5	51	6	12	17	182	246	X	X	BOTT
B.C. INLETS	84	51	7.8	127	9.5	51	6	12	19	91	219	X	X	BOTT
B.C. INLETS	85	51	7.5	127	11.0	51	6	12	19	320	341	X	X	BOTT
B.C. INLETS	86	51	8.0	127	17.0	51	6	12	21	45	396	X	X	BOTT
B.C. INLETS	87	51	7.8	127	26.1	51	6	12	21	182	231	X	X	BOTT
B.C. INLETS	88	51	8.0	127	32.5	51	6	12	23	173	195	X	X	BOTT
B.C. INLETS	89	51	7.5	127	33.2	51	6	12	23	45	91	X	X	BOTT
B.C. INLETS	90	51	5.8	127	43.0	51	6	13	18	54	79	X	X	BOTT
B.C. INLETS	91	51	24.2	127	52.4	51	6	13	21	91	121	X	X	BOTT
B.C. INLETS	92	51	26.4	127	38.5	51	6	13	23	228	347	X	X	BOTT
B.C. INLETS	93	51	28.0	127	32.5	51	6	14	17	36	39	X	X	BOTT
B.C. INLETS	94	51	26.5	127	27.5	51	6	14	18	91	100	X	X	BOTT
B.C. INLETS	95	51	26.0	127	19.5	51	6	14	20	118	131	X	X	BOTT
B.C. INLETS	96	51	26.3	127	24.0	51	6	14	21	109	146	X	X	BOTT
B.C. INLETS	97	51	31.2	127	33.6	51	6	14	23	292	329	X	X	BOTT
B.C. INLETS	98	51	35.9	127	32.3	51	6	15	15	301	329	X	X	BOTT
B.C. INLETS	99	51	38.9	127	26.7	51	6	15	17	274	304	X	X	BOTT
B.C. INLETS	100	51	44.4	127	27.2	51	6	15	19	182	195	X	X	BOTT
B.C. INLETS	101	51	47.1	127	23.3	51	6	15	20	219	237	X	X	BOTT
B.C. INLETS	102	51	50.2	127	21.8	51	6	15	21	137	164	X	X	BOTT
B.C. INLETS	103	51	40.7	127	19.9	51	6	16	15	182	201	X	X	BOTT
B.C. INLETS	104	51	48.9	127	26.3	51	6	16	16	91	298	X	X	BOTT
B.C. INLETS	105	51	35.9	127	32.9	51	6	16	17	91	329	X	X	BOTT
B.C. INLETS	106	51	31.5	127	51.4	51	6	16	21	137	176	X	X	BOTT
B.C. INLETS	107	51	43.8	127	55.5	51	6	16	23	274	359	X	X	BOTT
B.C. INLETS	108	51	55.7	127	56.6	51	6	17	15	274	343	X	X	BOTT
B.C. INLETS	109	52	7.0	127	52.5	51	6	17	17	365	438	X	X	BOTT
B.C. INLETS	110	52	11.7	127	49.9	51	6	17	20	365	509	X	X	BOTT
B.C. INLETS	111	52	15.8	127	44.5	51	6	19	17	274	426	X	X	BOTT
B.C. INLETS	112	52	17.0	127	36.5	51	6	19	18	274	335	X	X	BOTT
B.C. INLETS	113	52	20.5	127	28.0	51	6	19	20	365		X	X	BOTT
B.C. INLETS	114	52	24.5	127	23.5	51	6	19	22	457	579	X	X	BOTT
B.C. INLETS	115	52	27.2	127	15.5	51	6	20	1	365	527	X	X	BOTT
B.C. INLETS	116	52	33.2	127	12.0	51	6	20	16	365	475	X	X	BOTT
B.C. INLETS	117	52	37.3	127	4.0	51	6	20	19	365	518	X	X	BOTT
B.C. INLETS	118	52	44.0	126	58.0	51	6	20	20	365	438	X	X	BOTT
B.C. INLETS	119	52	49.0	127	0.2	51	6	20	22	137	146	X	X	BOTT
B.C. INLETS	120	52	51.5	127	3.5	51	6	20	23	91	128	X	X	BOTT
B.C. INLETS	121	52	49.0	127	0.0	51	6	21	14	18	152	X	X	BOTT
B.C. INLETS	122	52	37.7	127	3.8	51	6	21	17	18	457	X	X	BOTT
B.C. INLETS	123	52	23.5	127	12.0	51	6	22	15	365	466	X	X	BOTT
B.C. INLETS	124	52	19.2	127	8.8	51	6	22	18	457	551	X	X	BOTT
B.C. INLETS	125	52	19.2	127	2.5	51	6	22	19	365	484	X	X	BOTT
B.C. INLETS	126	52	39.4	126	55.8	51	6	22	20	365	402	X	X	BOTT
B.C. INLETS	127	52	37.6	127	48.5	51	6	22	21	137	234	X	X	BOTT
B.C. INLETS	128	52	17.2	126	58.0	51	6	23	15	365	438	X	X	BOTT
B.C. INLETS	129	51	11.5	126	54.4	51	6	23	16	137	195	X	X	BOTT
B.C. INLETS	130	51	7.0	126	46.2	51	6	23	18	228	259	X	X	BOTT
B.C. INLETS	131	52	3.2	126	42.0	51	6	23	19	137	219	X	X	BOTT
B.C. INLETS	132	52	19.0	127	1.8	51	6	25	17	137	490	X	X	BOTT
B.C. INLETS	133	52	19.2	127	9.5	51	6	25	18	137		X	X	BOTT
B.C. INLETS	134	52	17.5	127	12.1	51	6	25	19	45	530	X	X	BOTT
B.C. INLETS	135	52	14.7	127	19.5	51	6	25	22	365	566	X	X	BOTT
B.C. INLETS	136	52	12.0	127	26.5	51	6	25	23	457	542	X	X	BOTT
B.C. INLETS	137	52	6.1	127	37.5	51	6	26	14	365	429	X	X	BOTT
B.C. INLETS	138	51	59.8	127	40.9	51	6	26	17	137	259	X	X	BOTT
B.C. INLETS	139	51	56.8	127	45.0	51	6	26	18	91	94	X	X	BOTT
B.C. INLETS	140	51	55.7	127	50.3	51	6	26	19	91	124	X	X	BOTT
B.C. INLETS	141	52	14.4	127	54.2	51	6	29	19	91	134	X	X	BOTT
B.C. INLETS	142	52	14.8	128	16.7	51	6	29	21	274	493	X	X	BOTT
B.C. INLETS	143	52	26.4	128	27.4	51	6	30		274	661	X	X	BOTT
B.C. INLETS	144	52	47.8	128	32.1	51	6	30	16	274	344	X	X	BOTT
B.C. INLETS	145	52	54.6	128	30.6	51	6	30	17	274	435	X	X	BOTT
B.C. INLETS	146	53	3.2	128	32.9	51	6	30	19	182	256	X	X	BOTT
B.C. INLETS	147	53	8.7	128	36.2	51	6	30	21	182	408	X	X	BOTT
B.C. INLETS	148	53	20.0	128	54.5	51	7	1	19	365	542	X	X	BOTT
B.C. INLETS	149	53	26.6	128	56.5	51	7	1	20	274	326	X	X	BOTT
B.C. INLETS	150	53	32.9	128	59.6	51	7	1	22	219	249	X	X	BOTT
B.C. INLETS	151	53	32.7	128	53.6	51	7	1	23	137	216	X	X	BOTT
B.C. INLETS	152	53	34.2	128	47.4	51	7	2	1	137	170	X	X	BOTT
B.C. INLETS	153	53	29.8	128	41.7	51	7	2	15	137	195	X	X	BOTT
B.C. INLETS	154	53	25.3	128	32.9	51	7	2	17	182	219	X	X	BOTT
B.C. INLETS	155	53	26.7	128	25.0	51	7	2	18	274	402	X	X	BOTT
B.C. INLETS	156	53	28.8	128	20.4	51	7	2	20	365	438	X	X	BOTT
B.C. INLETS	157	53	28.0	128	13.0	51	7	2	21	365	457	X	X	BOTT
B.C. INLETS	158	53	27.8	128	8.5	51	7	2	22	9	313	X	X	BOTT
B.C. INLETS	159	53	16.0	127	55.5	51	7	3	15	137	167	X	X	BOTT
B.C. INLETS	160	53	19.9	127	56.8	51	7	3	17	182	219	X	X	BOTT
B.C. INLETS	161	53	23.8	128	4.0	51	7	3	18	137	256	X	X	BOTT
B.C. INLETS	162	53	27.0	128	7.4	51	7	3	19	137	304	X	X	BOTT

B.C. INLETS	163	53	29.2	128	20.4	51	7	3	21	13	512	X	X	BOTT
B.C. INLETS	164	53	25.3	128	32.9	51	7	3	22	13	225	X	X	BOTT
B.C. INLETS	165	53	36.2	128	50.4	51	7	4	15	137	179	X	X	BOTT
B.C. INLETS	166	53	41.0	128	49.4	51	7	4	16	228	313	X	X	BOTT
B.C. INLETS	167	53	45.4	128	49.4	51	7	4	18	274	329	X	X	BOTT
B.C. INLETS	168	53	33.2	128	59.2	51	7	5	16	219	259	X	X	BOTT
B.C. INLETS	169	53	28.7	129	4.5	51	7	5	17	137	188	X	X	BOTT
B.C. INLETS	170	53	23.2	129	8.3	51	7	5	19	274		X	X	BOTT
B.C. INLETS	171	53	20.6	129	11.1	51	7	5	20	274	411	X	X	BOTT
B.C. INLETS	172	53	19.2	129	2.0	51	7	5	21	274		X	X	BOTT
B.C. INLETS	173	53	19.1	128	54.5	51	7	5	22	365		X	X	BOTT
B.C. INLETS	174	53	22.1	129	11.1	51	7	8	17	274	481	X	X	BOTT
B.C. INLETS	175	53	25.5	129	12.3	51	7	8	18	274	408	X	X	BOTT
B.C. INLETS	176	53	31.7	129	12.1	51	7	8	20	274		X	X	BOTT
B.C. INLETS	177	53	37.8	129	12.0	51	7	8	21	274	329	X	X	BOTT
B.C. INLETS	178	53	41.2	129	6.4	51	7	8	22	274	420	X	X	BOTT
B.C. INLETS	179	53	44.5	129	1.0	51	7	9	15	274	368	X	X	BOTT
B.C. INLETS	180	53	46.8	128	54.6	51	7	9	17	274	365	X	X	BOTT
B.C. INLETS	181	53	50.4	128	48.3	51	7	9	18	274	310	X	X	BOTT
B.C. INLETS	182	53	54.6	128	43.5	51	7	9	20	182	219	X	X	BOTT
B.C. INLETS	183	53	58.6	128	40.5	51	7	9	21	137	152	X	X	BOTT
B.C. INLETS	184	54	1.4	128	37.3	51	7	10	17	24	36	X	X	BOTT
B.C. INLETS	185	53	58.6	128	40.5	51	7	11	15	54	146	X	X	BOTT
B.C. INLETS	186	53	54.6	128	43.5	51	7	11	16	54	225	X	X	BOTT
B.C. INLETS	187	53	50.3	128	35.7	51	7	11	18	137	213	X	X	BOTT
B.C. INLETS	188	53	50.4	128	31.9	51	7	11	19	137	158	X	X	BOTT
B.C. INLETS	189	53	51.0	128	42.6	51	7	11	20	137	213	X	X	BOTT
B.C. INLETS	190	53	50.4	128	48.3	51	7	11	22	54		X	X	BOTT
B.C. INLETS	191	53	44.5	129	1.0	51	7	12		45	368	X	X	BOTT
B.C. INLETS	192	53	37.8	129	12.0	51	7	12	15	91	329	X	X	BOTT
B.C. INLETS	193	53	25.5	129	12.3	51	7	12	17	365	408	X	X	BOTT
B.C. INLETS	194	53	25.0	129	24.3	51	7	12	20	228	304	X	X	BOTT
B.C. INLETS	195	53	31.1	129	34.2	51	7	12	22	91	134	X	X	BOTT
B.C. INLETS	196	53	38.4	129	44.0	51	7	12	23	42	91	X	X	BOTT
B.C. INLETS	197	53	42.4	129	48.4	51	7	13		137	198	X	X	BOTT
B.C. INLETS	198	53	48.4	129	58.0	51	7	13	15	91	170	X	X	BOTT
B.C. INLETS	199	53	51.8	130	3.2	51	7	13	16	91	158	X	X	BOTT
B.C. INLETS	200	53	59.7	130	12.8	51	7	13	18	91	115	X	X	BOTT
CHATHAM SOUND	201	54	15.0	130	31.3	51	7	16	17	68	97	X	X	BOTT
CHATHAM SOUND	202	54	24.0	130	33.5	51	7	16	18	91	128	X	X	BOTT
CHATHAM SOUND	203	54	34.8	130	32.2	51	7	16	20	182	256	X	X	BOTT
B.C. INLETS	204	54	35.8	130	20.0	51	7	16	22	118	140	X	X	BOTT
B.C. INLETS	205	54	35.2	130	20.4	51	7	17	15	91	146	X	X	BOTT
B.C. INLETS	206	54	29.2	130	14.0	51	7	17	16	274	310	X	X	BOTT
B.C. INLETS	207	54	23.4	130	6.5	51	7	17	19	137	170	X	X	BOTT
HECATE STRAIT	208	53	18.0	129	57.0	51	7	17	20	91	115	X	X	BOTT
B.C. INLETS	209	54	41.0	130	26.3	51	7	18	15	411	475	X	X	BOTT
B.C. INLETS	210	54	46.5	130	20.0	51	7	18	17	411	521	X	X	BOTT
B.C. INLETS	211	54	51.6	130	12.5	51	7	18	19	274	432	X	X	BOTT
B.C. INLETS	212	54	56.5	130	8.8	51	7	18	20	274	359	X	X	BOTT
B.C. INLETS	213	55	1.8	130	1.5	51	7	18	23	137	161	X	X	BOTT
B.C. INLETS	214	55	1.5	130	1.5	51	7	19	15	45	161	X	X	BOTT
B.C. INLETS	215	55	1.0	129	57.2	51	7	19	16	365		X	X	BOTT
B.C. INLETS	216	55	12.2	129	53.2	51	7	19	18	182		X	X	BOTT
B.C. INLETS	217	55	18.9	129	48.0	51	7	19	20	365	530	X	X	BOTT
B.C. INLETS	218	55	26.7	129	38.6	51	7	19	22	289	381	X	X	BOTT
B.C. INLETS	219	55	26.6	129	31.6	51	7	19	23	182	292	X	X	BOTT
B.C. INLETS	220	55	27.1	129	38.0	51	7	21	15	182		X	X	BOTT
B.C. INLETS	221	55	29.5	129	46.0	51	7	21	17	182	313	X	X	BOTT
B.C. INLETS	222	55	34.1	129	48.0	51	7	21	18	182	277	X	X	BOTT
B.C. INLETS	223	55	12.0	129	53.0	51	7	21	22	91		X	X	BOTT
B.C. INLETS	224	55	6.8	129	57.2	51	7	21	23	91	451	X	X	BOTT
B.C. INLETS	225	55	1.8	130	1.5	51	7	22		91	182	X	X	BOTT
B.C. INLETS	226	55	0.5	130	9.5	51	7	22	16	274	365	X	X	BOTT
B.C. INLETS	227	55	6.8	130	10.0	51	7	22	17	182	207	X	X	BOTT
B.C. INLETS	228	55	12.9	130	5.0	51	7	22	19	182	313	X	X	BOTT
B.C. INLETS	229	55	20.0	130	1.5	51	7	22	21	182	268	X	X	BOTT
B.C. INLETS	230	55	25.3	130	3.0	51	7	22	22	182	222	X	X	BOTT
B.C. INLETS	231	55	32.2	130	6.8	51	7	23		182	237	X	X	BOTT
B.C. INLETS	232	55	37.9	130	8.0	51	7	23	15	182	344	X	X	BOTT
B.C. INLETS	233	55	43.8	130	9.2	51	7	23	16	274	423	X	X	BOTT
B.C. INLETS	234	55	49.0	130	6.0	51	7	23	18	182		X	X	BOTT
B.C. INLETS	235	55	53.6	130	1.2	51	7	23	19	182	198	X	X	BOTT
B.C. INLETS	236	55	49.1	130	6.0	51	7	25	15	45	268	X	X	BOTT
B.C. INLETS	237	55	48.7	130	9.9	51	7	25	16	45	432	X	X	BOTT
B.C. INLETS	238	55	38.0	130	7.2	51	7	25	17	45	350	X	X	BOTT
B.C. INLETS	239	55	26.0	130	2.6	51	7	25	19	45	225	X	X	BOTT
B.C. INLETS	240	55	12.8	130	5.0	51	7	25	21	45	298	X	X	BOTT
B.C. INLETS	241	55	56.6	130	7.5	51	7	26	15	91	329	X	X	BOTT
B.C. INLETS	242	54	51.2	130	12.5	51	7	26	16	182	443	X	X	BOTT
B.C. INLETS	243	55	46.8	130	19.5	51	7	26	18	182	505	X	X	BOTT
B.C. INLETS	244	54	41.0	130	26.5	51	7	26	19	182		X	X	BOTT
B.C. INLETS	245	53	52.5	130	17.4	51	7	29		182	237	X	X	BOTT

B.C. INLETS	246	53	44.7	130	12.0	51	7	29	1	45	60		X	X	BOTT		
B.C. INLETS	247	53	37.1	130	3.7	51	7	29	15	91	128		X	X	BOTT		
HECATE STRAIT	248	53	19.5	129	46.5	51	7	29	18	137	188		X	X	BOTT		
B.C. INLETS	249	52	53.7	129	7.8	51	7	30	19	137	182		X	X	BOTT		
B.C. INLETS	250	52	54.2	129	4.6	51	7	30	19	228	283		X	X	BOTT		
B.C. INLETS	251	52	57.1	128	59.3	51	7	30	21	118	137		X	X	BOTT		
B.C. INLETS	252	53	1.5	128	55.7	51	7	30	22	118	152		X	X	BOTT		
B.C. INLETS	253	52	37.4	128	52.9	51	7	31	18	137	219		X	X	BOTT		
B.C. INLETS	254	52	40.8	128	45.0	51	7	31	20	274	408		X	X	BOTT		
B.C. INLETS	255	52	46.6	128	46.0	51	7	31	21	274	310		X	X	BOTT		
B.C. INLETS	256	52	51.1	128	43.5	51	7	31	22	320	384		X	X	BOTT		
B.C. INLETS	257	52	55.1	128	0.0	51	7	31	23	137	182		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 51-0012
YEAR:1951 VESSEL/AGENCY: POG,CEDARWOOD

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. SOUND	34	51	38.5	130	46.5	51	5	13	16	500			X	X	BOTT		
DIXON ENTRANCE	55	54	25.4	132	37.0	51	5	19	20	250	292		X	X	BOTT		
DIXON ENTRANCE	56	54	35.1	132	22.5	51	5	19	22	150	219		X	X	BOTT		
DIXON ENTRANCE	57	54	35.9	132	0.8	51	5	20		300			X	X	BOTT		
DIXON ENTRANCE	58	54	26.5	131	46.8	51	5	20	2	250	307		X	X	BOTT		
DIXON ENTRANCE	59	54	19.2	131	33.6	51	5	20	3	150	217		X	X	BOTT		
DIXON ENTRANCE	60	54	7.8	131	2.6	51	5	22	2	75	102		X	X	BOTT		
HECATE STRAIT	61	53	49.0	131	16.5	51	5	22	4	30	40		X	X	BOTT		
HECATE STRAIT	62	53	29.2	131	30.0	51	5	22	7	25	27		X	X	BOTT		
HECATE STRAIT	63	53	29.0	131	16.0	51	5	22	8	25	31		X	X	BOTT		
HECATE STRAIT	64	53	28.5	131	2.0	51	5	22	9	50	65		X	X	BOTT		
HECATE STRAIT	65	53	28.0	130	47.5	51	5	22	10	100	120		X	X	BOTT		
HECATE STRAIT	66	53	8.5	130	17.5	51	5	22	14	150	201		X	X	BOTT		
HECATE STRAIT	67	52	58.0	130	35.5	51	5	22	16	75	87		X	X	BOTT		
HECATE STRAIT	68	52	47.7	130	54.5	51	5	22	17	40	45		X	X	BOTT		
HECATE STRAIT	69	52	37.0	131	14.2	51	5	22	19	100	118		X	X	BOTT		
HECATE STRAIT	70	52	5.0	130	50.0	51	5	23		150	217		X	X	BOTT		
HECATE STRAIT	71	52	4.9	130	7.5	51	5	23	3	100	137		X	X	BOTT		
HECATE STRAIT	72	52	3.0	129	25.6	51	5	23	7	100	182		X	X	BOTT		
Q. C. SOUND	73	52	1.7	128	42.5	51	5	23	10	150	171		X	X	BOTT		
Q. C. SOUND	74	51	45.8	128	33.5	51	5	23	12	100	133		X	X	BOTT		
Q. C. SOUND	75	51	34.8	128	53.0	51	5	23	13	30	38		X	X	BOTT		
Q. C. SOUND	76	51	23.0	129	12.0	51	5	23	15	32	43		X	X	BOTT		
Q. C. SOUND	77	51	12.5	129	23.0	51	5	23	18	150	201		X	X	BOTT		
Q. C. SOUND	78	51	6.6	128	55.2	51	5	23	20	100	128		X	X	BOTT		
Q. C. SOUND	79	51	7.4	128	34.0	51	5	23	22	151	170		X	X	BOTT		
Q. C. SOUND	80	51	1.5	128	12.0	51	5	24	1	150	155		X	X	BOTT		
Q. C. SOUND	81	51	2.7	127	50.8	51	5	24	3	100	135		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 51-0016
YEAR:1951 VESSEL/AGENCY: POG,CEDARWOOD

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
DIXON ENTRANCE		54	13.0	133	38.0	51	7	27			256		X	X	BOTT		
DIXON ENTRANCE		54	16.2	133	09.0	51	7	27			228		X	X	BOTT		
DIXON ENTRANCE		54	26.4	132	57.0	51	7	27		250	292		X	X	BOTT		
Q. C. SOUND	46	51	6.0	129	30.0	51	7	23	19	200	246		X	X	BOTT		
Q. C. SOUND	47	51	6.0	128	58.0	51	7	23	22	75	109		X	X	BOTT		
Q. C. SOUND	48	51	6.0	128	27.0	51	7	24	1	125	157		X	X	BOTT		
Q. C. SOUND	49	51	23.0	128	27.0	51	7	24	3	125	146		X	X	BOTT		
Q. C. SOUND	50	51	41.0	128	27.0	51	7	24	6	100	124		X	X	BOTT		
Q. C. SOUND	51	51	42.0	128	56.0	51	7	24	9	50	56		X	X	BOTT		
Q. C. SOUND	52	51	42.0	129	27.5	51	7	24	13	50	78		X	X	BOTT		
Q. C. SOUND	53	51	32.5	130	0.0	51	7	24	17	150	182		X	X	BOTT		
Q. C. SOUND	54	51	56.0	130	30.0	51	7	24	20	200	384		X	X	BOTT		
DIXON ENTRANCE	73	54	36.0	132	46.0	51	7	27	7	125	146		X	X	BOTT		

DIXON ENTRANCE	74	54	23.5	132	31.0	51	7	27	9	200	256		X	X	BOTT		
DIXON ENTRANCE	75	54	12.9	132	20.2	51	7	27	11	100	129		X	X	BOTT		
DIXON ENTRANCE	76	54	24.0	132	6.8	51	7	27	13	200	292		X	X	BOTT		
DIXON ENTRANCE	77	54	35.0	131	47.4	51	7	27	16	250	320		X	X	BOTT		
DIXON ENTRANCE	78	54	22.6	131	4.5	51	8	1		75	95		X	X	BOTT		
DIXON ENTRANCE	79	54	28.0	131	22.5	51	8	1	2	150	182		X	X	BOTT		
DIXON ENTRANCE	80	54	34.0	131	46.6	51	8	1	4	250	310		X	X	BOTT		
DIXON ENTRANCE	81	54	24.0	132	1.4	51	8	1	7	150	182		X	X	BOTT		
DIXON ENTRANCE	82	54	13.0	132	15.0	51	8	1	9	100	128		X	X	BOTT		
DIXON ENTRANCE	83	54	24.6	132	31.0	51	8	1	11	200	246		X	X	BOTT		
DIXON ENTRANCE	84	54	36.0	132	46.0	51	8	1	13	75	106		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 51-0017
YEAR:1951 VESSEL/AGENCY: POG,CEDARWOOD

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
DIXON ENTRANCE		54	18.0	133	06.0	51	8	1	17	125	421		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 53-0015A
YEAR:1953 VESSEL/AGENCY: CANCOLIM II

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
Q. C. SOUND	14	51	4.4	127	42.8	53	6	14	18	100	117		X	X	BOTT		
Q. C. SOUND	15	51	1.1	127	51.8	53	6	14	19	125	132		X	X	BOTT		
Q. C. SOUND	16	50	54.2	128	1.8	53	6	14	22	24	161		X	X	BOTT		
Q. C. STRAIT	17	50	53.15	127	56.2	53	6	15		91	113		X	X	BOTT		
Q. C. STRAIT	90	50	53.8	127	22.4	53	6	23	2	82	110		X	X	BOTT		
Q. C. STRAIT	99	50	56.28	127	49.25	53	6	26	18	33	40		X	X	BOTT		
Q. C. STRAIT	100	50	53.6	127	50.3	53	6	26	20	30	18		X	X	BOTT		
Q. C. SOUND	101	50	57.2	127	53.8	53	6	26	22	15	18		X	X	BOTT		
Q. C. SOUND	102	50	55.85	127	57.8	53	6	26	22	15	18		X	X	BOTT		
Q. C. SOUND	103	50	54.2	128	2.1	53	6	26	23	20	24		X	X	BOTT		
Q. C. SOUND	104	50	52.78	127	53.4	53	6	27	1	165			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 53-0015B
YEAR:1953 VESSEL/AGENCY: UBC,CANCOLIM II

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
HECATE STRAIT	6	53	2.3	131	53.6	53	7	18	13	117	109		X	X	BOTT		
HECATE STRAIT	7	53	0.9	131	43.6	53	7	18	16	39	43		X	X	BOTT		
HECATE STRAIT	8	53	0.0	131	38.8	53	7	18	19	9	10		X	X	BOTT		
HECATE STRAIT	10	53	2.4	131	53.3	53	7	19	1	110	133		X	X	BOTT		
HECATE STRAIT	11	53	8.6	131	34.6	53	7	19	4	24			X	X	BOTT		
HECATE STRAIT	12	53	20.8	131	33.6	53	7	19	7	32	34		X	X	BOTT		
HECATE STRAIT	13	53	41.1	131	24.4	53	7	19	9	18	18		X	X	BOTT		
DIXON ENTRANCE	14	54	13.6	131	44.0	53	7	19	17	125	131		X	X	BOTT		
DIXON ENTRANCE	15	54	8.7	132	13.9	53	7	20	14	55	58		X	X	BOTT		
MASSET	16	53	59.9	132	8.9	53	7	20	16	18	18		X	X	BOTT		
DIXON ENTRANCE	23	54	12.1	132	12.6	53	7	21	20	110	109		X	X	BOTT		
DIXON ENTRANCE	24	54	14.3	132	27.0	53	7	22	22	132	131		X	X	BOTT		
DIXON ENTRANCE	49	54	9.0	132	12.2	53	7	30	4	48	51		X	X	BOTT		
DIXON ENTRANCE	50	54	11.8	131	57.8	53	7	30	6	91	100		X	X	BOTT		
DIXON ENTRANCE	51	54	17.0	131	30.0	53	7	30	8	91	109		X	X	BOTT		

DIXON ENTRANCE	52	54	7.5	131	14.3	53	7	30	10	28	31		X	X	BOTT		
HECATE STRAIT	53	54	1.3	131	4.3	53	7	30	12	70	73		X	X	BOTT		
HECATE STRAIT	54	53	55.7	130	54.2	53	7	30	14	36	36		X	X	BOTT		
HECATE STRAIT	55	54	2.2	130	46.1	53	7	30	15	75	78		X	X	BOTT		
Q. C. SOUND	86	51	50.8	130	51.0	53	8	9	21	205	226		X	X	BOTT		
Q. C. SOUND	87	51	38.7	130	19.6	53	8	10	1	400	446		X	X	BOTT		
Q. C. SOUND	88	51	27.2	129	48.0	53	8	10	6	168	173		X	X	BOTT		
Q. C. SOUND	89	51	15.5	129	16.5	53	8	10	9	250	257		X	X	BOTT		
Q. C. SOUND	90	51	3.8	128	44.5	53	8	10	13	79	80		X	X	BOTT		
Q. C. SOUND	91	50	56.5	128	14.4	53	8	10	16	42	42		X	X	BOTT		
Q. C. SOUND	92	50	54.3	128	1.7	53	8	10	18	20			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 54-0012A
YEAR:1954 VESSEL/AGENCY: CEDARWOOD

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO	DEPTH	MEAS				HR	
										(M)	(M)	C	S	T			
Q. C. SOUND	4	51	8.0	127	45.7	54	5	6	20	70	80		X	X	BOTT		
Q. C. SOUND	5	51	1.7	127	53.0	54	5	6	22	100	144		X	X	BOTT		
Q. C. SOUND	6	50	54.6	128	4.9	54	5	7		20	29		X	X	BOTT		
Q. C. SOUND	7	50	54.5	128	24.2	54	5	7	1	50	60		X	X	BOTT		
Q. C. SOUND	8	50	54.8	128	43.5	54	5	7	3	75	96		X	X	BOTT		
Q. C. SOUND	9	50	55.3	129	7.2	54	5	7	5	75	45		X	X	BOTT		
Q. C. SOUND	10	51	3.2	128	38.4	54	5	7	8	65	82		X	X	BOTT		
Q. C. SOUND	11	51	10.1	128	8.0	54	5	7	11	65	80		X	X	BOTT		
Q. C. SOUND	12	51	14.0	127	52.2	54	5	7	13	90	95		X	X	BOTT		
Q. C. SOUND	13	51	27.6	128	7.5	54	5	7	16	90	96		X	X	BOTT		
Q. C. SOUND	14	51	19.5	128	28.0	54	5	7	18	120	131		X	X	BOTT		
Q. C. SOUND	15	51	10.0	128	52.0	54	5	7	21	100	126		X	X	BOTT		
Q. C. SOUND	16	50	58.7	129	13.4	54	5	7	23	150	170		X	X	BOTT		
Q. C. SOUND	17	51	13.4	129	40.1	54	5	8	3	300	347		X	X	BOTT		
Q. C. SOUND	18	51	23.0	129	14.0	54	5	8	6	60	67		X	X	BOTT		
Q. C. SOUND	19	51	32.0	128	53.0	54	5	8	9	70	85		X	X	BOTT		
Q. C. SOUND	20	51	43.4	128	26.5	54	5	8	12	130	148		X	X	BOTT		
Q. C. SOUND	21	52	12.7	128	38.1	54	5	8	15	200	237		X	X	BOTT		
HECATE STRAIT	22	52	3.2	129	5.3	54	5	8	18	150	168		X	X	BOTT		
Q. C. SOUND	23	51	53.5	129	30.5	54	5	8	21	200	243		X	X	BOTT		
Q. C. SOUND	24	51	44.6	129	54.2	54	5	9		200	329		X	X	BOTT		
Q. C. SOUND	25	51	34.5	130	18.0	54	5	9	3	300	640		X	X	BOTT		
Q. C. SOUND	26	51	54.8	130	51.7	54	5	9	7	150	159		X	X	BOTT		
HECATE STRAIT	27	52	2.7	130	30.0	54	5	9	9	200	420		X	X	BOTT		
HECATE STRAIT	28	52	11.1	130	5.2	54	5	9	12	220	237		X	X	BOTT		
HECATE STRAIT	29	52	23.9	129	39.5	54	5	9	15	180	175		X	X	BOTT		
HECATE STRAIT	30	52	29.4	129	11.6	54	5	9	18	165	173		X	X	BOTT		
HECATE STRAIT	31	52	54.0	129	22.1	54	5	9	21	250	274		X	X	BOTT		
HECATE STRAIT	32	52	46.1	129	42.9	54	5	10		190	202		X	X	BOTT		
HECATE STRAIT	33	52	35.9	130	9.2	54	5	10	3	220	265		X	X	BOTT		
HECATE STRAIT	34	52	26.6	130	34.5	54	5	10	5	130	137		X	X	BOTT		
HECATE STRAIT	35	52	17.5	130	58.0	54	5	10	7	140	155		X	X	BOTT		
HECATE STRAIT	36	52	39.0	131	16.1	54	5	10	11	125	146		X	X	BOTT		
HECATE STRAIT	37	52	45.7	130	59.2	54	5	10	12	35	40		X	X	BOTT		
HECATE STRAIT	38	52	55.5	131	14.7	54	5	10	15	90	100		X	X	BOTT		
HECATE STRAIT	39	53	6.7	130	7.7	54	5	10	17	125	124		X	X	BOTT		
HECATE STRAIT	40	53	34.0	130	43.8	54	5	10	22	175	148		X	X	BOTT		
HECATE STRAIT	41	53	26.6	131	3.1	54	5	11		55	62		X	X	BOTT		
HECATE STRAIT	42	53	20.5	131	34.0	54	5	11	2	30	38		X	X	BOTT		
HECATE STRAIT	43	53	43.6	131	42.0	54	5	11	5	20	18		X	X	BOTT		
HECATE STRAIT	44	53	46.2	131	15.0	54	5	11	7	37	42		X	X	BOTT		
HECATE STRAIT	45	53	49.0	130	45.0	54	5	11	9	95	100		X	X	BOTT		
HECATE STRAIT	46	54	0.0	130	43.2	54	5	11	11	85	91		X	X	BOTT		
HECATE STRAIT	47	54	0.0	131	2.1	54	5	11	13	75	91		X	X	BOTT		
HECATE STRAIT	48	54	0.0	131	30.1	54	5	11	15	15	18		X	X	BOTT		
DIXON ENTRANCE	49	54	10.2	131	29.0	54	5	11	17	15	20		X	X	BOTT		
DIXON ENTRANCE	50	54	10.0	131	13.0	54	5	11	18	20	21		X	X	BOTT		
CHATHAM SOUND	51	54	10.0	130	54.5	54	5	11	20	75	109		X	X	BOTT		
CHATHAM SOUND	52	54	20.9	130	37.2	54	5	11	22	150	170		X	X	BOTT		
CHATHAM SOUND	53	54	19.3	130	51.1	54	5	11	23	175	228		X	X	BOTT		
DIXON ENTRANCE	54	54	20.0	131	11.7	54	5	12	1	70	76		X	X	BOTT		
DIXON ENTRANCE	55	54	20.0	131	29.6	54	5	12	3	150	164		X	X	BOTT		
DIXON ENTRANCE	56	54	34.0	131	30.5	54	5	12	6	125	129		X	X	BOTT		
DIXON ENTRANCE	57	54	34.0	131	12.7	54	5	12	7	70	82		X	X	BOTT		
DIXON ENTRANCE	58	54	40.0	130	38.3	54	5	12	11	230	259		X	X	BOTT		
DIXON ENTRANCE	61	54	39.5	132	0.0	54	5	12	18	150	182		X	X	BOTT		
DIXON ENTRANCE	62	54	25.5	132	0.0	54	5	12	21	280	310		X	X	BOTT		

DIXON ENTRANCE	63	54	10.0	132	0.0	54	5	12	23	65	76		X	X	BOTT
DIXON ENTRANCE	64	54	10.0	132	30.0	54	5	13	1	50	69		X	X	BOTT
DIXON ENTRANCE	65	54	24.5	132	30.0	54	5	13	4	270	365		X	X	BOTT
DIXON ENTRANCE	66	54	39.6	132	30.0	54	5	13	6	150	182		X	X	BOTT
DIXON ENTRANCE	69	54	43.8	133	01.5	54	5	13	09	200	219		X	X	BOTT
DIXON ENTRANCE	70	54	30.3	133	00.0	54	5	12	11	300	366		X	X	BOTT
DIXON ENTRANCE	71	54	18.5	133	00.0	54	5	13	13	400	457		X	X	BOTT
DIXON ENTRANCE	72	54	00.0	133	30.0	54	5	13	16	150	168		X	X	BOTT
DIXON ENTRANCE	73	54	17.0	133	30.0	54	5	13	19	300	347		X	X	BOTT
HECATE STRAIT	74	53	15.5	131	30.3	54	5	21	19	20	20		X	X	BOTT
DIXON ENTRANCE	74	54	34.4	133	30.0	54	5	13	21	340	366		X	X	BOTT
HECATE STRAIT	75	53	26.6	131	4.2	54	5	21	22	50	60		X	X	BOTT
HECATE STRAIT	76	53	26.6	131	4.2	54	5	24	1	60	65		X	X	BOTT
HECATE STRAIT	77	53	36.3	130	43.8	54	5	26	7	100	182		X	X	BOTT
HECATE STRAIT	78	53	40.0	130	27.0	54	5	26	9	125	133		X	X	BOTT
HECATE STRAIT	79	52	52.1	130	52.2	54	5	26	15	60	89		X	X	BOTT
HECATE STRAIT	80	52	26.0	130	35.0	54	5	26	18	125	144		X	X	BOTT
HECATE STRAIT	81	52	9.5	130	3.0	54	5	26	21	220	250		X	X	BOTT
Q. C. SOUND	82	51	52.8	129	31.0	54	5	27		220			X	X	BOTT
Q. C. SOUND	83	51	32.2	128	51.0	54	5	27	4	33	42		X	X	BOTT
Q. C. SOUND	84	51	16.7	128	27.4	54	5	27	7	100	128		X	X	BOTT
Q. C. SOUND	85	51	10.0	128	8.4	54	5	27	9	75	93		X	X	BOTT
Q. C. SOUND	86	51	1.7	127	54.6	54	5	27	11	125	140		X	X	BOTT

BOTTLE/CTD DATA SET NUMBER: 54-0012B
YEAR:1954 VESSEL/AGENCY: EHKOLI

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. SOUND	4	51	7.6	127	45.1	54	7	1	14	55	65		X	X	BOTT		
Q. C. SOUND	5	51	1.3	127	54.0	54	7	1	15	100	124		X	X	BOTT		
Q. C. SOUND	6	50	53.9	128	3.5	54	7	1	17	20	25		X	X	BOTT		
Q. C. SOUND	7	50	53.7	128	23.0	54	7	1	19	50	69		X	X	BOTT		
Q. C. SOUND	8	50	53.3	128	42.4	54	7	1	21	50	60		X	X	BOTT		
Q. C. SOUND	9	50	54.3	129	2.8	54	7	1	23	50	58		X	X	BOTT		
Q. C. SOUND	10	51	2.5	128	37.0	54	7	2	2	60	76		X	X	BOTT		
Q. C. SOUND	11	51	10.0	128	7.0	54	7	2	5	30	76		X	X	BOTT		
Q. C. SOUND	12	51	14.2	127	53.1	54	7	2	6	100	128		X	X	BOTT		
Q. C. SOUND	13	51	28.0	128	7.0	54	7	2	9	60	71		X	X	BOTT		
Q. C. SOUND	14	51	20.0	128	27.0	54	7	2	12	115	128		X	X	BOTT		
Q. C. SOUND	15	51	10.0	128	51.0	54	7	2	14	100	128		X	X	BOTT		
Q. C. SOUND	16	51	0.0	129	15.0	54	7	2	17	125	151		X	X	BOTT		
Q. C. SOUND	17	51	13.0	129	39.0	54	7	2	20	300	402		X	X	BOTT		
Q. C. SOUND	18	51	27.0	129	15.0	54	7	2	23	60	73		X	X	BOTT		
Q. C. SOUND	19	51	40.5	128	51.0	54	7	3	1	30	40		X	X	BOTT		
Q. C. SOUND	20	51	47.9	128	31.0	54	7	3	4	125	135		X	X	BOTT		
Q. C. SOUND	21	52	13.0	128	38.5	54	7	4	15	225	245		X	X	BOTT		
HECATE STRAIT	22	52	2.5	129	5.5	54	7	4	18	150	160		X	X	BOTT		
Q. C. SOUND	23	51	53.0	129	31.0	54	7	4	21	230	248		X	X	BOTT		
Q. C. SOUND	24	51	44.0	129	54.0	54	7	5		300	336		X	X	BOTT		
Q. C. SOUND	25	51	33.5	130	18.0	54	7	5	3	500	731		X	X	BOTT		
Q. C. SOUND	26	51	51.0	130	52.0	54	7	5	8	190	208		X	X	BOTT		
Q. C. SOUND	27	52	0.0	130	27.0	54	7	5	11	300	420		X	X	BOTT		
HECATE STRAIT	28	52	10.0	130	3.0	54	7	5	14	140	151		X	X	BOTT		
HECATE STRAIT	29	52	26.2	129	33.8	54	7	5	16	140	149		X	X	BOTT		
HECATE STRAIT	30	52	46.2	129	43.0	54	7	5	19	150	164		X	X	BOTT		
HECATE STRAIT	31	52	36.0	130	10.5	54	7	5	22	225	243		X	X	BOTT		
HECATE STRAIT	32	52	26.5	130	35.0	54	7	6		125	135		X	X	BOTT		
HECATE STRAIT	33	52	16.5	131	0.0	54	7	6	3	100	117		X	X	BOTT		
HECATE STRAIT	34	52	36.5	131	22.5	54	7	6	7	70	76		X	X	BOTT		
HECATE STRAIT	35	52	42.9	131	7.0	54	7	6	9	30	36		X	X	BOTT		
HECATE STRAIT	36	52	52.0	130	43.0	54	7	6	11	42	47		X	X	BOTT		
HECATE STRAIT	37	53	6.0	130	16.0	54	7	6	14	175	201		X	X	BOTT		
HECATE STRAIT	38	53	8.5	130	0.3	54	7	6	16	150	171		X	X	BOTT		
HECATE STRAIT	39	53	34.5	130	43.8	54	7	6	21	145	155		X	X	BOTT		
HECATE STRAIT	40	53	27.1	131	3.0	54	7	6	23	30	45		X	X	BOTT		
HECATE STRAIT	41	53	16.3	131	31.0	54	7	7	1	20	25		X	X	BOTT		
HECATE STRAIT	42	53	44.0	131	40.2	54	7	7	5	10	18		X	X	BOTT		
HECATE STRAIT	43	54	0.0	131	30.0	54	7	7	7	10	16		X	X	BOTT		
DIXON ENTRANCE	44	54	10.0	131	30.0	54	7	7	8	10	18		X	X	BOTT		
CHATHAM SOUND	45	54	10.0	130	54.4	54	7	13	15	80	87		X	X	BOTT		
DIXON ENTRANCE	46	54	10.0	131	13.0	54	7	13	17	10	21		X	X	BOTT		
DIXON ENTRANCE	47	54	10.0	131	30.0	54	7	13	18	10	18		X	X	BOTT		
DIXON ENTRANCE	48	54	20.0	131	29.7	54	7	13	20	165	182		X	X	BOTT		

DIXON ENTRANCE	49	54	19.5	131	13.5	54	7	13	21	60	69		X	X	BOTT		
CHATHAM SOUND	50	54	19.4	130	52.5	54	7	13	23	175	219		X	X	BOTT		
CHATHAM SOUND	51	54	20.4	130	37.2	54	7	14	1	175	168		X	X	BOTT		
DIXON ENTRANCE	52	54	40.0	130	38.5	54	7	14	4	200	223		X	X	BOTT		
DIXON ENTRANCE	54	54	34.0	131	12.8	54	7	14	9	100	117		X	X	BOTT		
DIXON ENTRANCE	55	54	34.0	131	29.5	54	7	14	11	110	120		X	X	BOTT		
DIXON ENTRANCE	57	54	39.5	132	0.0	54	7	14	15	170	182		X	X	BOTT		
DIXON ENTRANCE	58	54	25.5	131	59.0	54	7	14	17	280	303		X	X	BOTT		
DIXON ENTRANCE	59	54	10.0	132	0.0	54	7	14	19	60	65		X	X	BOTT		
DIXON ENTRANCE	60	54	10.0	132	29.5	54	7	14	22	60	73		X	X	BOTT		
DIXON ENTRANCE	61	54	25.5	132	30.0	54	7	15	1	300	310		X	X	BOTT		
DIXON ENTRANCE	62	54	39.5	132	29.5	54	7	15	3	165	182		X	X	BOTT		
DIXON ENTRANCE	69	54	43.3	133	00.0	54	7	15	06	190	205		X	X	BOTT		
DIXON ENTRANCE	70	54	29.0	132	58.0	54	7	15	09	300	329		X	X	BOTT		
DIXON ENTRANCE	71	54	17.5	133	00.0	54	7	15	10	300	438		X	X	BOTT		
DIXON ENTRANCE	72	54	00.0	133	30.0	54	7	15	14	150	168		X	X	BOTT		
DIXON ENTRANCE	73	54	17.0	133	30.0	54	7	15	17	240	252		X	X	BOTT		
DIXON ENTRANCE	74	54	34.5	133	30.0	54	7	15	19	275	311		X	X	BOTT		
DIXON ENTRANCE	75	54	49.5	133	25.5	54	7	15	21	100	183		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 54-0012C
YEAR:1954 VESSEL/AGENCY: POG/CEDARWOOD

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. SOUND	1	50	56.2	129	7.3	54	8	18	6	75	91		X	X	BOTT		
	2	50	50.5	128	44.0	54	8	18	8	65	76		X	X	BOTT		
Q. C. SOUND	3	51	2.5	128	35.7	54	8	18	9	80	87		X	X	BOTT		
Q. C. SOUND	4	50	54.5	128	24.0	54	8	18	11	45	53		X	X	BOTT		
Q. C. SOUND	5	50	54.4	128	4.4	54	8	18	12	20	27		X	X	BOTT		
Q. C. STRAIT	8	50	53.6	127	21.1	54	8	18	17	100	120		X	X	BOTT		
Q. C. SOUND	9	51	7.2	127	45.7	54	8	18	20	85	95		X	X	BOTT		
Q. C. SOUND	10	51	1.5	127	52.7	54	8	18	21	140	144		X	X	BOTT		
Q. C. SOUND	11	51	10.0	128	8.3	54	8	18	22	90	100		X	X	BOTT		
Q. C. SOUND	12	51	14.1	127	52.3	54	8	19		75	113		X	X	BOTT		
Q. C. SOUND	13	51	27.6	128	7.5	54	8	19	2	75	87		X	X	BOTT		
Q. C. SOUND	14	51	19.2	128	28.2	54	8	19	4	145	157		X	X	BOTT		
Q. C. SOUND	15	51	10.0	128	49.0	54	8	19	6	100	109		X	X	BOTT		
Q. C. SOUND	16	50	59.0	129	16.2	54	8	19	10	150	168		X	X	BOTT		
Q. C. SOUND	17	51	12.8	129	40.5	54	8	19	12	375	409		X	X	BOTT		
Q. C. SOUND	18	51	22.2	129	15.7	54	8	19	15	120	131		X	X	BOTT		
Q. C. SOUND	19	51	31.4	128	53.0	54	8	19	17	45	51		X	X	BOTT		
Q. C. SOUND	20	51	40.5	128	30.0	54	8	19	19	120	138		X	X	BOTT		
Q. C. SOUND	21	52	12.5	128	38.2	54	8	19	23	230	239		X	X	BOTT		
HECATE STRAIT	22	52	2.5	129	5.0	54	8	20	1	120	135		X	X	BOTT		
Q. C. SOUND	23	51	52.7	129	30.7	54	8	20	2	225	237		X	X	BOTT		
Q. C. SOUND	24	51	43.0	129	57.5	54	8	20	6	200	351		X	X	BOTT		
Q. C. SOUND	25	51	34.0	130	22.0	54	8	20	8	600			X	X	BOTT		
Q. C. SOUND	26	51	55.0	130	51.7	54	8	20	12	140	160		X	X	BOTT		
HECATE STRAIT	27	52	2.5	130	29.5	54	8	20	14	300	343		X	X	BOTT		
HECATE STRAIT	28	52	11.0	130	2.5	54	8	20	16	135	148		X	X	BOTT		
HECATE STRAIT	29	52	19.8	129	33.7	54	8	20	18	175	186		X	X	BOTT		
HECATE STRAIT	30	52	29.5	129	11.6	54	8	20	21	140	160		X	X	BOTT		
HECATE STRAIT	31	52	53.6	129	21.4	54	8	21		250	259		X	X	BOTT		
HECATE STRAIT	32	52	46.0	129	43.7	54	8	21	2	150	160		X	X	BOTT		
HECATE STRAIT	33	52	35.0	130	9.7	54	8	21	4	250	263		X	X	BOTT		
HECATE STRAIT	34	52	25.0	130	35.0	54	8	21	6	125	135		X	X	BOTT		
HECATE STRAIT	35	52	17.2	130	58.5	54	8	21	8	100	149		X	X	BOTT		
HECATE STRAIT	36	52	36.6	131	22.9	54	8	21	11	75	118		X	X	BOTT		
HECATE STRAIT	37	52	43.0	131	6.5	54	8	21	13	35	40		X	X	BOTT		
HECATE STRAIT	38	52	49.2	130	50.5	54	8	21	14	35	43		X	X	BOTT		
HECATE STRAIT	39	52	59.5	130	23.5	54	8	21	17	165	179		X	X	BOTT		
HECATE STRAIT	40	53	9.8	130	1.0	54	8	21	18	100	131		X	X	BOTT		
HECATE STRAIT	41	53	40.5	130	26.5	54	8	22		120	135		X	X	BOTT		
HECATE STRAIT	42	53	34.0	130	43.8	54	8	22	2	170	179		X	X	BOTT		
HECATE STRAIT	43	53	26.5	131	4.0	54	8	22	3	37	42		X	X	BOTT		
HECATE STRAIT	44	53	16.0	131	29.5	54	8	22	5	20	27		X	X	BOTT		
HECATE STRAIT	45	53	43.7	131	4.3	54	8	22	9	10	14		X	X	BOTT		
HECATE STRAIT	46	53	46.7	131	11.4	54	8	22	11	30	43		X	X	BOTT		
HECATE STRAIT	47	53	49.0	130	45.0	54	8	22	12	90	102		X	X	BOTT		
HECATE STRAIT	48	54	0.0	130	43.0	54	8	22	14	75	87		X	X	BOTT		
HECATE STRAIT	49	54	0.0	131	2.4	54	8	22	15	70	87		X	X	BOTT		
HECATE STRAIT	50	54	1.2	131	29.0	54	8	22	17	18	18		X	X	BOTT		
DIXON ENTRANCE	51	54	10.5	131	30.4	54	8	22	18	18	20		X	X	BOTT		

DIXON ENTRANCE	52	54	11.0	131	12.5	54	8	22	19	25	27		X	X	BOTT		
CHATHAM SOUND	53	54	9.7	130	54.3	54	8	22	21	85	95		X	X	BOTT		
CHATHAM SOUND	54	54	20.2	130	37.4	54	8	22	22	175	197		X	X	BOTT		
CHATHAM SOUND	55	54	19.5	130	52.5	54	8	23		200	219		X	X	BOTT		
DIXON ENTRANCE	56	54	20.0	131	13.0	54	8	23	1	50	62		X	X	BOTT		
DIXON ENTRANCE	57	54	20.0	131	29.6	54	8	23	3	150	168		X	X	BOTT		
DIXON ENTRANCE	58	54	34.5	131	29.0	54	8	23	5	131	131		X	X	BOTT		
DIXON ENTRANCE	59	54	34.0	131	13.8	54	8	23	6	75	137		X	X	BOTT		
DIXON ENTRANCE	60	54	40.0	130	38.0	54	8	23	9	200	256		X	X	BOTT		
DIXON ENTRANCE	63	54	38.7	132	0.0	54	8	23	15	150	168		X	X	BOTT		
DIXON ENTRANCE	64	54	26.2	132	0.0	54	8	23	16	275	301		X	X	BOTT		
DIXON ENTRANCE	65	54	10.0	131	59.0	54	8	23	18	60	69		X	X	BOTT		
DIXON ENTRANCE	66	54	10.0	132	30.0	54	8	23	21	75	80		X	X	BOTT		
DIXON ENTRANCE	67	54	25.5	132	30.0	54	8	24		200	292		X	X	BOTT		
DIXON ENTRANCE	68	54	39.7	132	30.0	54	8	24		150	182		X	X	BOTT		
DIXON ENTRANCE	69	54	43.3	133	00.0	54	8	24	03	130	157		X	X	BOTT		
DIXON ENTRANCE	70	54	30.3	133	00.0	54	8	24	05	141	183		X	X	BOTT		
DIXON ENTRANCE	71	54	18.5	133	02.0	54	8	24	06	400	435		X	X	BOTT		
HECATE STRAIT	72	52	51.7	130	10.8	54	9	2	5	200	234		X	X	BOTT		
HECATE STRAIT	73	52	40.0	130	40.0	54	9	2	9	130	137		X	X	BOTT		
HECATE STRAIT	74	52	40.0	130	40.0	54	9	4	12	120	128		X	X	BOTT		
HECATE STRAIT	75	52	30.2	131	7.7	54	9	4	19	75	95		X	X	BOTT		
Q. C. SOUND	76	50	54.6	128	4.5	54	9	7	16	25	29		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 54-0012D
YEAR:1954 VESSEL/AGENCY: CEDARWOOD

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. STRAIT	3	50	53.7	127	21.5	54	11	18	22	120	137		X	X	BOTT		
Q. C. SOUND	4	51	7.3	127	45.3	54	11	19		75	91		X	X	BOTT		
Q. C. SOUND	6	51	7.3	127	44.8	54	12	1	6	75	82		X	X	BOTT		
Q. C. SOUND	7	51	14.5	127	52.5	54	12	1	8	100	131		X	X	BOTT		
Q. C. SOUND	8	51	10.0	128	8.0	54	12	1	9	50	69		X	X	BOTT		
Q. C. SOUND	9	51	3.0	128	32.1	54	12	1	11	100	122		X	X	BOTT		
Q. C. SOUND	10	50	55.4	129	5.2	54	12	1	14	75	87		X	X	BOTT		
Q. C. SOUND	11	51	0.3	129	14.6	54	12	1	15	125	153		X	X	BOTT		
Q. C. SOUND	13	51	22.5	129	15.0	54	12	1	21	90	107		X	X	BOTT		
Q. C. SOUND	14	51	32.0	128	51.0	54	12	1	23	35	40		X	X	BOTT		
Q. C. SOUND	15	51	45.2	128	25.7	54	12	2	1	125	146		X	X	BOTT		
Q. C. SOUND	16	52	13.2	128	39.7	54	12	2	4	250	292		X	X	BOTT		
Q. C. SOUND	17	51	53.0	129	30.5	54	12	2	9	225	256		X	X	BOTT		
Q. C. SOUND	18	51	33.6	130	18.1	54	12	2	13	300	859		X	X	BOTT		
Q. C. SOUND	19	51	52.3	130	48.6	54	12	2	16	200	237		X	X	BOTT		
HECATE STRAIT	20	52	10.0	130	2.0	54	12	2	20	125	149		X	X	BOTT		
HECATE STRAIT	21	52	21.5	129	27.5	54	12	2	23	100	135		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 55-0012
YEAR:1955 VESSEL/AGENCY: UBC,CEDARWOOD

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
SMITH INLET	23	51	16.3	127	45.3	55	7	10	14	100	119		X	X	BOTT		
SMITH INLET	24	51	18.7	127	35.1	55	7	10	16	150	174		X	X	BOTT		
SMITH INLET	25	51	18.5	127	27.6	55	7	10	17	200	265		X	X	BOTT		
SMITH INLET	26	51	17.6	127	19.5	55	7	10	19	300	329		X	X	BOTT		
SMITH INLET	27	51	18.7	127	13.2	55	7	10	20	200	284		X	X	BOTT		
SMITH INLET	28	51	22.0	127	7.1	55	7	10	22	181	184		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 55-0013
YEAR:1955 VESSEL/AGENCY: CEDARWOOD

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. SOUND	1	50	47.1	127	26.3	55	06	23	16	300	329		X	X	BOTT		
Q. C. SOUND	1	51	10.0	128	8.7	55	6	9	6	75	82		X	X	BOTT		
Q. C. SOUND	2	50	00.8	127	23.5	55	06	23	15	120	132		X	X	BOTT		
Q. C. SOUND	2	51	19.5	128	27.0	55	6	9	9	146	153		X	X	BOTT		
Q. C. SOUND	3	50	53.9	127	01.3	55	06	23	15	90	73		X	X	BOTT		
Q. C. SOUND	3	51	32.3	128	51.0	55	6	9	10	35	43		X	X	BOTT		
Q. C. SOUND	4	51	52.9	129	30.0	55	6	9	13	125	241		X	X	BOTT		
HECATE STRAIT	5	52	9.5	130	3.1	55	6	9	16	175	186		X	X	BOTT		
HECATE STRAIT	6	52	26.5	130	35.0	55	6	9	19	115	124		X	X	BOTT		
HECATE STRAIT	7	52	43.3	131	6.5	55	6	9	22	30	36		X	X	BOTT		
HECATE STRAIT	8	53	17.0	131	20.0	55	6	10	2	20	27		X	X	BOTT		
HECATE STRAIT	9	53	44.4	131	41.3	55	6	10	5	15	16		X	X	BOTT		
HECATE STRAIT	10	53	46.0	131	15.0	55	6	10	8	30	38		X	X	BOTT		
HECATE STRAIT	11	53	49.8	130	51.0	55	6	10	10	65	80		X	X	BOTT		
HECATE STRAIT	12	54	0.0	130	43.2	55	6	10	13	75	91		X	X	BOTT		
HECATE STRAIT	13	53	59.8	130	43.6	55	6	13	21	75	87		X	X	BOTT		
HECATE STRAIT	14	54	0.0	131	2.0	55	6	13	22	75	80		X	X	BOTT		
HECATE STRAIT	15	53	59.8	131	30.6	55	6	14		10	12		X	X	BOTT		
DIXON ENTRANCE	16	54	10.0	131	30.8	55	6	14	1	15	21		X	X	BOTT		
DIXON ENTRANCE	17	54	10.1	131	10.8	55	6	14	2	20	29		X	X	BOTT		
DIXON ENTRANCE	18	54	10.0	130	58.0	55	6	14	3	75	98		X	X	BOTT		
CHATHAM SOUND	19	54	20.3	130	36.9	55	6	14	5	75	128		X	X	BOTT		
CHATHAM SOUND	20	54	19.7	130	52.3	55	6	14	6	10	186		X	X	BOTT		
DIXON ENTRANCE	21	54	20.1	131	12.5	55	6	14	8	50	62		X	X	BOTT		
DIXON ENTRANCE	22	54	18.0	131	20.0	55	6	14	9	100	179		X	X	BOTT		
DIXON ENTRANCE	23	54	34.0	131	30.0	55	6	14	12	150	149		X	X	BOTT		
DIXON ENTRANCE	24	54	34.0	131	13.0	55	6	14	13	75	82		X	X	BOTT		
DIXON ENTRANCE	25	54	40.0	130	38.2	55	6	14	16	200	223		X	X	BOTT		
DIXON ENTRANCE	28	54	40.8	131	20.0	55	6	14	23	175	175		X	X	BOTT		
DIXON ENTRANCE	29	54	40.8	131	20.0	55	6	15	1	175	175		X	X	BOTT		
DIXON ENTRANCE	30	54	33.1	131	13.0	55	6	15	6	75	118		X	X	BOTT		
DIXON ENTRANCE	31	54	20.0	131	13.0	55	6	15	9	50	73		X	X	BOTT		
DIXON ENTRANCE	32	54	11.0	131	12.7	55	6	15	10	20	27		X	X	BOTT		
HECATE STRAIT	33	53	46.0	131	15.0	55	6	15	15	35	40		X	X	BOTT		
HECATE STRAIT	34	53	46.0	131	15.0	55	6	15	17	35	36		X	X	BOTT		
HECATE STRAIT	35	53	46.0	131	15.0	55	6	15	19	35	36		X	X	BOTT		
HECATE STRAIT	36	53	46.0	131	15.0	55	6	15	21	35	36		X	X	BOTT		
HECATE STRAIT	37	53	46.0	131	15.0	55	6	15	23	35	38		X	X	BOTT		
HECATE STRAIT	38	53	46.0	131	15.0	55	6	16	1	35	42		X	X	BOTT		
DIXON ENTRANCE	42	54	39.3	132	30.0	55	6	17	14	150	182		X	X	BOTT		
DIXON ENTRANCE	43	54	25.6	132	25.1	55	6	17	16	300	356		X	X	BOTT		
DIXON ENTRANCE	44	54	9.5	132	30.3	55	6	17	18	50	58		X	X	BOTT		
DIXON ENTRANCE	45	54	10.0	131	59.9	55	6	17	21	75	84		X	X	BOTT		
DIXON ENTRANCE	46	54	25.4	131	58.7	55	6	17	23	270	288		X	X	BOTT		
DIXON ENTRANCE	47	54	39.7	131	59.8	55	6	18	1	150	168		X	X	BOTT		
DIXON ENTRANCE	50	54	39.8	130	38.0	55	6	18	7	250	294		X	X	BOTT		
CHATHAM SOUND	51	54	10.0	130	54.6	55	6	19	3	75	84		X	X	BOTT		
DIXON ENTRANCE	52	54	9.6	131	13.2	55	6	19	4	20	25		X	X	BOTT		
DIXON ENTRANCE	53	54	10.0	131	30.2	55	6	19	6	15	20		X	X	BOTT		
HECATE STRAIT	54	54	0.0	131	31.8	55	6	19	7	15	10		X	X	BOTT		
HECATE STRAIT	55	54	0.2	131	3.5	55	6	19	9	75	74		X	X	BOTT		
HECATE STRAIT	56	54	0.0	130	43.2	55	6	19	11	50	78		X	X	BOTT		
HECATE STRAIT	57	53	49.0	130	45.3	55	6	19	12	75	100		X	X	BOTT		
HECATE STRAIT	58	53	46.1	131	14.8	55	6	19	14	30	38		X	X	BOTT		
HECATE STRAIT	60	53	39.6	130	26.8	55	6	19	21	50	129		X	X	BOTT		
HECATE STRAIT	61	53	34.0	130	43.8	55	6	19	22	100	122		X	X	BOTT		
HECATE STRAIT	62	53	26.5	131	4.0	55	6	20		30	42		X	X	BOTT		
HECATE STRAIT	63	53	16.3	131	31.0	55	6	20	2	20	25		X	X	BOTT		
HECATE STRAIT	64	52	37.0	131	21.4	55	6	20	7	100	109		X	X	BOTT		
HECATE STRAIT	65	52	41.2	131	5.4	55	6	20	9	30	32		X	X	BOTT		
HECATE STRAIT	66	52	52.4	130	42.0	55	6	20	11	80	100		X	X	BOTT		
HECATE STRAIT	67	53	3.0	130	14.6	55	6	20	14	150	219		X	X	BOTT		
HECATE STRAIT	68	53	8.2	130	0.6	55	6	20	16	170	168		X	X	BOTT		
HECATE STRAIT	69	52	53.9	129	23.1	55	6	21	7	220	234		X	X	BOTT		
HECATE STRAIT	70	52	46.1	129	42.7	55	6	21	9	140	157		X	X	BOTT		
HECATE STRAIT	71	51	18.9	129	38.0	55	6	21	12	175	193		X	X	BOTT		
HECATE STRAIT	72	52	29.4	129	11.4	55	6	21	15	125			X	X	BOTT		
HECATE STRAIT	73	52	13.4	128	39.2	55	6	21	18	250	274		X	X	BOTT		
HECATE STRAIT	74	52	2.7	129	5.7	55	6	21	21	125	142		X	X	BOTT		
Q. C. SOUND	75	51	52.8	129	30.0	55	6	21	23	200	237		X	X	BOTT		
Q. C. SOUND	76	51	43.2	129	53.6	55	6	22	2	280	307		X	X	BOTT		

Q. C. SOUND	77	51	33.1	130	19.0	55	6	22	4	400	859		X	X	BOTT		
Q. C. SOUND	78	51	12.2	129	39.2	55	6	22	8	250	259		X	X	BOTT		
Q. C. SOUND	79	51	22.0	129	15.0	55	6	22	10	150	159		X	X	BOTT		
Q. C. SOUND	80	51	32.0	128	51.0	55	6	22	13	30	43		X	X	BOTT		
Q. C. SOUND	81	51	42.6	128	27.0	55	6	22	16	115	128		X	X	BOTT		
Q. C. SOUND	82	51	27.4	128	8.3	55	6	22	18	75	91		X	X	BOTT		
Q. C. SOUND	83	51	20.1	128	29.0	55	6	22	20	125	146		X	X	BOTT		
Q. C. SOUND	84	51	12.5	128	53.3	55	6	22	22	100	124		X	X	BOTT		
Q. C. SOUND	85	51	0.2	129	14.2	55	6	23	1	125	146		X	X	BOTT		
Q. C. SOUND	86	50	54.2	129	3.6	55	6	23	2	75	80		X	X	BOTT		
Q. C. SOUND	87	50	54.7	128	45.0	55	6	23	4	75	80		X	X	BOTT		
Q. C. SOUND	88	51	2.6	128	37.5	55	6	23	5	65	78		X	X	BOTT		
Q. C. SOUND	89	51	10.0	128	7.4	55	6	23	7	75	87		X	X	BOTT		
Q. C. SOUND	90	51	14.5	128	43.0	55	6	23	9	85	102		X	X	BOTT		
Q. C. SOUND	91	51	7.3	128	58.0	55	6	23	10	75	84		X	X	BOTT		
Q. C. SOUND	92	51	1.5	127	53.5	55	6	23	11	125	137		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 55-0020
YEAR:1955 VESSEL/AGENCY: POG,JONQUIERE

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. STRAIT	1	50	47.2	127	26.8	55	2	6	20	300	340		X	X	BOTT		
Q. C. STRAIT	2	50	50.2	127	24.5	55	2	6	21	125	168		X	X	BOTT		
Q. C. STRAIT	3	50	53.6	127	21.1	55	2	6	22	100	128		X	X	BOTT		
Q. C. SOUND	4	51	8.2	127	46.2	55	2	7		30	60		X	X	BOTT		
Q. C. SOUND	5	51	1.7	127	54.7	55	2	7	1	100	138		X	X	BOTT		
Q. C. SOUND	6	50	55.4	128	4.7	55	2	7	2	20	29		X	X	BOTT		
Q. C. SOUND	7	50	54.9	128	24.3	55	2	7	4	50	58		X	X	BOTT		
Q. C. SOUND	8	50	54.5	128	44.2	55	2	7	6	75	98		X	X	BOTT		
Q. C. SOUND	9	50	55.3	129	4.8	55	2	7	8	50	80		X	X	BOTT		
Q. C. SOUND	10	51	2.4	128	38.0	55	2	7	10	50	80		X	X	BOTT		
Q. C. SOUND	11	51	10.8	128	8.5	55	2	7	13	50	74		X	X	BOTT		
Q. C. SOUND	12	51	13.8	127	53.0	55	2	7	14	75	135		X	X	BOTT		
Q. C. SOUND	13	51	27.8	128	7.5	55	2	7	16	30	36		X	X	BOTT		
Q. C. SOUND	14	51	20.5	128	27.0	55	2	7	18	100	124		X	X	BOTT		
Q. C. SOUND	15	51	10.5	128	51.5	55	2	7	21	100	128		X	X	BOTT		
Q. C. SOUND	16	51	1.0	129	15.5	55	2	7	23	100	173		X	X	BOTT		
Q. C. SOUND	17	51	12.0	129	39.0	55	2	8	1	100			X	X	BOTT		
Q. C. SOUND	18	51	22.8	129	14.7	55	2	8	3	75	109		X	X	BOTT		
Q. C. SOUND	19	51	31.8	128	51.0	55	2	8	5	30	42		X	X	BOTT		
Q. C. SOUND	20	51	42.4	128	26.3	55	2	8	7	100	146		X	X	BOTT		
Q. C. SOUND	21	52	11.8	128	39.3	55	2	9	3	150			X	X	BOTT		
HECATE STRAIT	22	52	2.8	129	6.2	55	2	9	5	100	157		X	X	BOTT		
Q. C. SOUND	23	51	52.8	129	30.5	55	2	9	6	150	245		X	X	BOTT		
Q. C. SOUND	24	51	43.4	129	54.5	55	2	9	8	150	329		X	X	BOTT		
Q. C. SOUND	25	51	33.0	130	18.5	55	2	9	10	200	365		X	X	BOTT		
Q. C. SOUND	26	51	53.5	130	51.3	55	2	9	12	100	171		X	X	BOTT		
HECATE STRAIT	27	52	0.8	130	28.0	55	2	9	14	250	358		X	X	BOTT		
HECATE STRAIT	28	52	10.0	130	3.0	55	2	9	16	130	157		X	X	BOTT		
HECATE STRAIT	29	52	19.8	129	36.8	55	2	9	17	200	201		X	X	BOTT		
HECATE STRAIT	30	52	29.5	129	11.6	55	2	9	19	125	168		X	X	BOTT		
HECATE STRAIT	31	52	55.0	129	23.7	55	2	9	22	150	223		X	X	BOTT		
HECATE STRAIT	32	52	45.5	129	43.5	55	2	9	23	150	173		X	X	BOTT		
HECATE STRAIT	33	52	35.0	130	10.0	55	2	10	1	200	276		X	X	BOTT		
HECATE STRAIT	34	52	26.5	130	35.0	55	2	10	3	125	157		X	X	BOTT		
HECATE STRAIT	35	52	15.8	130	58.7	55	2	10	5	50	160		X	X	BOTT		
HECATE STRAIT	36	52	37.7	131	21.0	55	2	10	7	50	138		X	X	BOTT		
HECATE STRAIT	37	52	43.4	131	7.2	55	2	10	9	30	43		X	X	BOTT		
HECATE STRAIT	38	52	52.7	130	43.7	55	2	10	10	50	84		X	X	BOTT		
HECATE STRAIT	39	52	2.9	130	15.0	55	2	10	12	150	212		X	X	BOTT		
HECATE STRAIT	40	52	8.8	129	59.6	55	2	10	14	50	100		X	X	BOTT		
HECATE STRAIT	42	53	34.4	130	44.2	55	2	10	17	100	131		X	X	BOTT		
HECATE STRAIT	43	53	26.6	131	3.3	55	2	10	19	50	58		X	X	BOTT		
HECATE STRAIT	44	53	17.0	131	29.5	55	2	10	21	10	29		X	X	BOTT		
HECATE STRAIT	45	53	44.8	131	40.4	55	2	10	23	10	21		X	X	BOTT		
HECATE STRAIT	46	53	47.0	131	15.0	55	2	11	1	20	43		X	X	BOTT		
HECATE STRAIT	47	53	49.8	130	45.5	55	2	11	3	50	87		X	X	BOTT		
HECATE STRAIT	48	54	0.0	130	43.3	55	2	11	4	50	91		X	X	BOTT		
HECATE STRAIT	49	54	0.0	131	2.7	55	2	11	6	50	87		X	X	BOTT		
HECATE STRAIT	50	54	0.0	131	24.8	55	2	11	7	10	18		X	X	BOTT		
DIXON ENTRANCE	51	54	10.0	131	27.2	55	2	11	8	10	18		X	X	BOTT		
DIXON ENTRANCE	52	54	10.0	131	13.0	55	2	11	9	10	29		X	X	BOTT		
CHATHAM SOUND	53	54	10.0	130	54.0	55	2	11	11	50	115		X	X	BOTT		

CHATHAM SOUND	54	54	20.4	130	37.2	55	2	12	17	125	159		X	X	BOTT		
CHATHAM SOUND	55	54	19.7	130	52.0	55	2	12	19	50	175		X	X	BOTT		
DIXON ENTRANCE	56	54	20.2	131	12.8	55	2	12	20	50	76		X	X	BOTT		
DIXON ENTRANCE	57	54	19.8	131	30.2	55	2	12	22	150	179		X	X	BOTT		
DIXON ENTRANCE	58	54	34.0	131	30.0	55	2	12	23	75	120		X	X	BOTT		
DIXON ENTRANCE	59	54	33.6	131	13.0	55	2	13		75	131		X	X	BOTT		
DIXON ENTRANCE	60	54	44.8	131	30.2	55	2	13	06	75	113		X	X	BOTT		
DIXON ENTRANCE	61	54	44.5	131	11.6	55	2	13	05	200	267		X	X	BOTT		
DIXON ENTRANCE	62	54	40.0	130	38.3	55	2	13	3	200	248		X	X	BOTT		
DIXON ENTRANCE	63	54	39.2	131	59.7	55	2	13	8	150	182		X	X	BOTT		
DIXON ENTRANCE	64	54	25.5	131	58.5	55	2	13	10	250	296		X	X	BOTT		
DIXON ENTRANCE	65	54	10.0	132	1.0	55	2	13	12	50	76		X	X	BOTT		
DIXON ENTRANCE	66	54	9.1	132	30.6	55	2	13	13	50	73		X	X	BOTT		
DIXON ENTRANCE	67	54	26.4	132	30.0	55	2	13	15	200	303		X	X	BOTT		
DIXON ENTRANCE	68	54	39.6	132	30.4	55	2	13	17	150	179		X	X	BOTT		
DIXON ENTRANCE	69	54	43.4	133	00.2	55	2	13	18	125	168		X	X	BOTT		
DIXON ENTRANCE	70	54	30.5	133	00.0	55	2	13	20	200	331		X	X	BOTT		
DIXON ENTRANCE	71	54	17.3	133	00.0	55	2	13	21	200	450		X	X	BOTT		
DIXON ENTRANCE	72	54	00.0	133	30.0	55	2	13	23	100	183		X	X	BOTT		
DIXON ENTRANCE	73	54	17.4	133	30.0	55	2	14	01	250	291		X	X	BOTT		
DIXON ENTRANCE	74	54	34.5	133	31.5	55	2	14	03	250	351		X	X	BOTT		
DIXON ENTRANCE	75	54	54.4	133	30.0	55	2	14	05	100	183		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 55-0021
YEAR:1955 VESSEL/AGENCY: JONQUIERE

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. SOUND		51	12.4	129	39.0	55	4	18	3	225	283		X	X	BOTT		
Q. C. SOUND		51	22.5	129	15.0	55	4	18	1	75	113		X	X	BOTT		
Q. C. SOUND		51	32.5	128	50.5	55	4	18		30	40		X	X	BOTT		
DIXON ENTRANCE		54	20.0	131	13.0	55	4	15	17	50	73		X	X	BOTT		
DIXON ENTRANCE		54	20.0	131	30.0	55	4	15	16	150	182		X	X	BOTT		
Q. C. STRAIT	1	50	47.2	127	26.4	55	4	18	22	150	265		X	X	BOTT		
Q. C. STRAIT	2	50	49.1	127	25.0	55	4	18	21	150	219		X	X	BOTT		
Q. C. STRAIT	3	50	51.5	127	23.1	55	4	18	21	150	168		X	X	BOTT		
Q. C. SOUND	4	51	7.8	127	45.4	55	4	18	17	40	51		X	X	BOTT		
Q. C. SOUND	5	51	1.8	127	55.4	55	4	18	16	100	138		X	X	BOTT		
Q. C. SOUND	6	50	55.0	128	4.5	55	4	18	16	20	27		X	X	BOTT		
Q. C. SOUND	7	50	54.9	128	24.0	55	4	18	15	30	80		X	X	BOTT		
Q. C. SOUND	8	50	55.0	128	45.2	55	4	18	14	50	73		X	X	BOTT		
Q. C. SOUND	9	50	54.8	129	7.0	55	4	18	12	50	80		X	X	BOTT		
Q. C. SOUND	10	51	3.0	128	36.6	55	4	18	11	50	69		X	X	BOTT		
Q. C. SOUND	11	51	10.0	128	10.0	55	4	18	9	75	93		X	X	BOTT		
Q. C. SOUND	12	51	14.5	127	52.0	55	4	18	18	75	109		X	X	BOTT		
CHATHAM SOUND	13	54	19.4	130	53.0	55	4	15	18	100	223		X	X	BOTT		
Q. C. SOUND	14	51	19.2	128	28.2	55	4	18	8	125	146		X	X	BOTT		
CHATHAM SOUND	14	54	20.8	130	37.5	55	4	15	19	100			X	X	BOTT		
Q. C. SOUND	15	51	10.5	128	50.0	55	4	18	6	100	117		X	X	BOTT		
CHATHAM SOUND	15	54	9.8	130	54.5	55	4	15	21	75	104		X	X	BOTT		
Q. C. SOUND	16	51	0.0	129	14.5	55	4	18	5	125	160		X	X	BOTT		
DIXON ENTRANCE	16	56	9.1	131	13.4	55	4	15	22	19	25		X	X	BOTT		
DIXON ENTRANCE	17	54	10.0	131	30.0	55	4	15	23	10	21		X	X	BOTT		
HECATE STRAIT	18	54	0.0	131	30.0	55	4	16		10	20		X	X	BOTT		
HECATE STRAIT	19	54	0.0	131	2.0	55	4	16	1	50	98		X	X	BOTT		
HECATE STRAIT	20	54	0.2	130	44.0	55	4	16	3	75	106		X	X	BOTT		
HECATE STRAIT	21	53	49.0	130	45.0	55	4	16	4	75	98		X	X	BOTT		
HECATE STRAIT	22	53	46.0	131	15.0	55	4	16	6	30	54		X	X	BOTT		
HECATE STRAIT	23	53	44.0	131	40.5	55	4	16	7	10	18		X	X	BOTT		
HECATE STRAIT	24	53	16.0	131	34.0	55	4	16	9	10	27		X	X	BOTT		
HECATE STRAIT	25	53	26.0	131	3.0	55	4	16	11	30	60		X	X	BOTT		
HECATE STRAIT	26	53	35.0	130	44.0	55	4	16	12	100	153		X	X	BOTT		
HECATE STRAIT	27	53	8.6	130	0.0	55	4	16	15	100	131		X	X	BOTT		
HECATE STRAIT	28	53	3.0	130	15.5	55	4	16	17	175	212		X	X	BOTT		
HECATE STRAIT	29	52	52.0	130	42.5	55	4	16	18	50	84		X	X	BOTT		
HECATE STRAIT	30	52	43.0	131	6.0	55	4	16	19	30	40		X	X	BOTT		
HECATE STRAIT	31	52	37.0	131	21.0	55	4	16	21	75	124		X	X	BOTT		
HECATE STRAIT	32	52	16.4	131	0.0	55	4	16	22	50	128		X	X	BOTT		
HECATE STRAIT	33	52	26.0	130	35.0	55	4	17		75	135		X	X	BOTT		
HECATE STRAIT	34	52	35.6	130	9.5	55	4	17	1	200	241		X	X	BOTT		
HECATE STRAIT	35	52	46.8	129	45.9	55	4	17	3	175	219		X	X	BOTT		
HECATE STRAIT	36	52	19.0	129	38.0	55	4	17	5	175	204		X	X	BOTT		
HECATE STRAIT	37	52	9.5	130	3.0	55	4	17	7	200	246		X	X	BOTT		
Q. C. SOUND	38	51	58.0	130	29.5	55	4	17	9	250	405		X	X	BOTT		

Q. C. SOUND	39	51	54.2	130	51.0	55	4	17	11	100	168		X	X	BOTT
Q. C. SOUND	40	51	32.9	130	17.5	55	4	17	13	200	400		X	X	BOTT
Q. C. SOUND	41	51	42.5	129	53.8	55	4	17	15	300	338		X	X	BOTT
Q. C. SOUND	42	51	52.0	129	29.5	55	4	17	17	200	237		X	X	BOTT
HECATE STRAIT	43	52	2.5	129	5.5	55	4	17	18	125	164		X	X	BOTT
Q. C. SOUND	44	52	12.9	128	39.0	55	4	17	20	200	256		X	X	BOTT
Q. C. SOUND	45	51	42.7	128	26.4	55	4	17	22	125	142		X	X	BOTT
DIXON ENTRANCE	64	54	25.5	132	0.0	55	4	15	3	250	292		X	X	BOTT
DIXON ENTRANCE	65	54	9.2	132	0.0	55	4	15	2	50	51		X	X	BOTT
DIXON ENTRANCE	66	54	10.1	132	31.0	55	4	15		75	84		X	X	BOTT
DIXON ENTRANCE	67	54	25.6	132	29.7	55	4	14	23	225	274		X	X	BOTT
DIXON ENTRANCE	68	54	39.8	132	30.0	55	4	14	21	150	182		X	X	BOTT
DIXON ENTRANCE	69	54	43.5	133	00.0	55	4	14	20	150	186		X	X	BOTT
DIXON ENTRANCE	70	54	30.5	133	00.0	55	4	14	18	125	141		X	X	BOTT
DIXON ENTRANCE	71	54	16.5	133	00.0	55	4	14	17	400	446		X	X	BOTT
DIXON ENTRANCE	73	54	17.7	133	29.5	55	4	14	16	250	296		X	X	BOTT
DIXON ENTRANCE	74	54	34.5	133	30.0	55	4	14	14	300	351		X	X	BOTT

BOTTLE/CTD DATA SET NUMBER: 56-0008
YEAR:1956 VESSEL/AGENCY: UBC,CEDARWOOD

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT NO HR
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T		
B.C. INLETS	54	51	36.2	127	32.2	56	7	14	16	300	329		X	X	BOTT	
B.C. INLETS	55	51	39.0	127	26.9	56	7	14	17	300	311		X	X	BOTT	
B.C. INLETS	56	51	40.6	127	19.8	56	7	14	18	200	201		X	X	BOTT	
B.C. INLETS	57	51	47.3	127	23.2	56	7	14	21	227	238		X	X	BOTT	
B.C. INLETS	59	51	55.5	127	51.7	56	7	15	13	100	137		X	X	BOTT	
B.C. INLETS	60	52	0.5	127	40.0	56	7	15	15	250	311		X	X	BOTT	
B.C. INLETS	61	52	7.0	127	37.0	56	7	15	16	399	439		X	X	BOTT	
B.C. INLETS	62	52	11.5	127	27.5	56	7	15	18	500	604		X	X	BOTT	
B.C. INLETS	63	52	5.8	127	27.8	56	7	15	19	400	457		X	X	BOTT	
B.C. INLETS	64	52	16.5	127	16.0	56	7	15	23	500	585		X	X	BOTT	
B.C. INLETS	65	52	22.6	126	48.7	56	7	16	15	200	228		X	X	BOTT	
B.C. INLETS	66	52	21.1	126	54.0	56	7	16	16	370	402		X	X	BOTT	
B.C. INLETS	67	52	19.1	126	59.5	56	7	16	17	400	503		X	X	BOTT	
B.C. INLETS	68	52	19.5	127	7.5	56	7	16	18	500	549		X	X	BOTT	
B.C. INLETS	69	52	23.7	127	13.5	56	7	16	20	450	503		X	X	BOTT	
B.C. INLETS	70	52	27.9	127	15.0	56	7	16	21	478	512		X	X	BOTT	
B.C. INLETS	71	52	33.4	127	12.1	56	7	16	22	400	466		X	X	BOTT	
B.C. INLETS	72	52	52.0	127	3.8	56	7	17	15	100	106		X	X	BOTT	
B.C. INLETS	73	52	49.6	126	58.8	56	7	17	16	161	167		X	X	BOTT	
B.C. INLETS	74	52	44.0	126	57.5	56	7	17	17	400	457		X	X	BOTT	
B.C. INLETS	75	52	38.2	127	1.0	56	7	17	19	470	494		X	X	BOTT	
B.C. INLETS	76	52	27.4	127	15.0	56	7	17	21	489	521		X	X	BOTT	
B.C. INLETS	77	52	24.6	127	24.0	56	7	17	22	496	530		X	X	BOTT	
B.C. INLETS	78	52	20.6	127	28.0	56	7	18		400	466		X	X	BOTT	
B.C. INLETS	79	51	16.4	127	37.8	56	7	18	1	300	345		X	X	BOTT	
B.C. INLETS	80	52	35.0	127	36.8	56	7	18	14	200	217		X	X	BOTT	
B.C. INLETS	81	52	31.5	127	33.0	56	7	18	15	300	305		X	X	BOTT	
B.C. INLETS	82	52	27.0	127	27.5	56	7	18	16	280	302		X	X	BOTT	
B.C. INLETS	83	52	15.5	127	45.3	56	7	18	19	399	484		X	X	BOTT	
B.C. INLETS	84	52	26.0	127	55.5	56	7	19	18	200	238		X	X	BOTT	
B.C. INLETS	85	52	23.0	127	52.0	56	7	19	19	140	155		X	X	BOTT	
B.C. INLETS	86	52	26.0	127	56.0	56	7	19	20	169	128		X	X	BOTT	
B.C. INLETS	87	52	36.0	127	50.6	56	7	19	21	134	140		X	X	BOTT	
B.C. INLETS	88	52	27.4	127	47.5	56	7	19	22	70	73		X	X	BOTT	
B.C. INLETS	89	52	21.0	128	0.5	56	7	20	2	49	55		X	X	BOTT	
B.C. INLETS	90	52	25.3	127	59.6	56	7	20	3	60	70		X	X	BOTT	
B.C. INLETS	91	52	27.4	128	6.8	56	7	20	15	200	228		X	X	BOTT	
B.C. INLETS	92	52	32.0	128	5.5	56	7	20	16	150	168		X	X	BOTT	
B.C. INLETS	93	52	36.7	128	5.2	56	7	20	17	200	225		X	X	BOTT	
B.C. INLETS	94	52	30.2	128	4.8	56	7	20	18	299	320		X	X	BOTT	
B.C. INLETS	95	52	22.3	128	10.5	56	7	20	20	300	402		X	X	BOTT	
B.C. INLETS	96	52	18.3	128	13.2	56	7	20	21	249	274		X	X	BOTT	
B.C. INLETS	97	52	28.7	128	26.3	56	7	21	1	600	759		X	X	BOTT	
B.C. INLETS	98	52	30.5	128	15.3	56	7	21	15	350	425		X	X	BOTT	
B.C. INLETS	99	52	36.2	128	13.4	56	7	21	17	400	530		X	X	BOTT	
B.C. INLETS	100	52	41.3	128	11.0	56	7	21	18	600	625		X	X	BOTT	
B.C. INLETS	101	52	45.5	128	8.0	56	7	21	19	400	530		X	X	BOTT	
B.C. INLETS	102	52	45.8	128	59.0	56	7	21	21	390	410		X	X	BOTT	
B.C. INLETS	103	52	44.5	128	54.0	56	7	21	22	150	183		X	X	BOTT	
B.C. INLETS	104	52	54.2	128	5.0	56	7	22		200	247		X	X	BOTT	
B.C. INLETS	105	52	54.2	128	6.8	56	7	22	13	20	342		X	X	BOTT	

B.C. INLETS	106	52	50.1	128	10.8	56	7	22	15	200	256		X	X	BOTT		
B.C. INLETS	107	52	47.4	128	16.7	56	7	22	16	300	356		X	X	BOTT		
B.C. INLETS	108	52	48.6	128	23.2	56	7	22	17	400	435		X	X	BOTT		
B.C. INLETS	109	52	46.1	128	27.4	56	7	22	19	499	622		X	X	BOTT		
B.C. INLETS	110	52	40.8	128	28.5	56	7	22	20	499	595		X	X	BOTT		
Q. C. SOUND	111	52	0.0	128	27.9	56	7	22	22	600	677		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 56-0009
YEAR:1956 VESSEL/AGENCY: UBC,EHKOLI

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. STRAIT	27	50	55.0	128	3.8	56	5	12	20	20	25		X	X	BOTT		
Q. C. STRAIT	28	50	56.5	127	59.9	56	5	12	21	20	29		X	X	BOTT		
Q. C. STRAIT	29	50	58.7	127	56.9	56	5	12	22	10	25		X	X	BOTT		
Q.C. STRAIT	30	50	57.0	127	42.8	56	5	12	22	150	329		X	X	BOTT		
Q. C. STRAIT	31	50	56.2	127	57.3	56	5	12	23	10	14		X	X	BOTT		
O. C. STRAIT	32	50	57.7	127	53.8	56	5	12	23	10	18		X	X	BOTT		
Q.C. STRAIT	33	50	56.8	127	49.0	56	5	12	23	50	73		X	X	BOTT		
Q.C. STRAIT	35	50	59.4	127	46.9	56	5	13	16	150	149		X	X	BOTT		
Q. C. STRAIT	36	51	1.1	127	51.6	56	5	13	17	125	142		X	X	BOTT		
Q.C. STRAIT	37	51	3.9	127	45.0	56	5	13	18	75	98		X	X	BOTT		
Q.C. STRAIT	38	51	5.6	127	41.6	56	5	13	19	40	47		X	X	BOTT		
Q.C. STRAIT	39	51	1.4	127	36.9	56	5	13	20	100	171		X	X	BOTT		
Q.C. STRAIT	40	50	58.5	127	38.6	56	5	13	21	75	155		X	X	BOTT		
Q.C. STRAIT	41	50	53.8	127	38.2	56	5	13	23	300	429		X	X	BOTT		
Q.C. STRAIT	42	50	52.6	127	35.0	56	5	14	1	300	365		X	X	BOTT		
Q.C. STRAIT	43	50	49.7	127	40.3	56	5	14	14	300	351		X	X	BOTT		
Q.C. STRAIT	44	50	51.0	127	47.0	56	5	14	16	200	310		X	X	BOTT		
Q.C. STRAIT	45	50	52.8	127	52.6	56	5	14	16	200	256		X	X	BOTT		
Q.C. STRAIT	46	50	53.4	127	57.2	56	5	14	17	50	69		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 57-0007A
YEAR:1957 VESSEL/AGENCY: POG,OSHAWA

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. SOUND	35	51	39.0	130	25.0	57	9	30	19	172	248	X		X	BOTT		
Q. C. SOUND	36	51	18.0	129	44.0	57	9	30	22	225	256	X		X	BOTT		
Q. C. SOUND	37	51	1.0	129	26.5	57	10	1	1	419	530	X		X	BOTT		
Q. C. SOUND	38	50	55.0	129	8.0	57	10	1	3	50	54	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 57-0007B
YEAR:1957 VESSEL/AGENCY: POG,OSHAWA

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
DIXON ENTRANCE	17	54	23.0	132	0.0	57	12	2		199	274	X		X	BOTT		
DIXON ENTRANCE	18	54	23.0	132	30.0	57	12	2	2	188	248	X		X	BOTT		
Q. C. SOUND	33	51	56.2	130	49.5	57	12	7	7	150	212	X		X	BOTT		
Q. C. SOUND	34	51	38.0	130	20.0	57	12	7	10	293	420	X		X	BOTT		
Q. C. SOUND	35	51	17.0	129	47.0	57	12	7	14	200	237	X		X	BOTT		
Q. C. SOUND	36	51	22.5	129	20.0	57	12	7	16	45	73	X		X	BOTT		
Q. C. SOUND	44	51	19.0	128	45.0	57	12	17	15	200		X		X	BOTT		
Q. C. SOUND	45	51	8.0	128	21.0	57	12	17	17	175	182	X		X	BOTT		
Q. C. SOUND	46	51	0.0	127	48.5	57	12	17	20	125	138	X		X	BOTT		

DIXON ENTRANCE	H71	54 17.0	133 02.0	57	12	02	12	188	439	X		X	BOTT

BOTTLE/CTD DATA SET NUMBER: 57-0008
YEAR:1957 VESSEL/AGENCY: POG,OSHAWA

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
DIXON ENTRANCE	49	54 30.4	133 30.0	57	2	20	21	212		X		X	BOTT		
DIXON ENTRANCE	50	54 34.4	132 40.0	57	2	21	1	221		X		X	BOTT		
DIXON ENTRANCE	51	54 20.0	132 36.0	57	2	21	3	225		X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 57-0009
YEAR:1957 VESSEL/AGENCY:

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
DIXON ENTRANCE	33	54 30.5	131 47.0	57	8	19	21	314	340		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 57-0016
YEAR:1957 VESSEL/AGENCY: POG,OSHAWA

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
DIXON ENTRANCE		54 19.0	132 59.0	57	5	02	17		460		X	X	BOTT		
DIXON ENTRANCE	26	54 02.0	133 16.3	57	5	02	11	45	51		X	X	BOTT		
Q. C. SOUND	37	51 16.0	129 44.0	57	5	11	15	350			X	X	BOTT		
Q. C. SOUND	38	51 2.0	129 20.0	57	5	11	18	170	184		X	X	BOTT		
Q. C. SOUND	39	50 55.0	129 8.2	57	5	11	20	50	71		X	X	BOTT		
Q. C. SOUND	48	51 35.5	130 29.0	57	5	11	11	597			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 57-0019
YEAR:1957 VESSEL/AGENCY: UBC

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
Q.C. STRAIT	1	50 53.4	127 57.2	57	5	30		10			X	X	BOTT		
Q.C. STRAIT	2	50 52.8	127 52.6	57	5	30	1	10			X	X	BOTT		
Q.C. STRAIT	3	50 51.0	127 47.0	57	5	30	1	10			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 58-0007
YEAR:1958 VESSEL/AGENCY: POG,OSHAWA

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. SOUND	19	51	0.0	128	10.0	58	3	16	5	70	82	X		X	BOTT		
Q. C. SOUND	20	51	0.0	128	55.0	58	3	16	8	50	64	X		X	BOTT		
Q. C. SOUND	21	51	16.0	129	33.0	58	3	16	11	225	234	X		X	BOTT		
Q. C. SOUND	22	51	32.0	130	11.0	58	3	16	14	898	932	X		X	BOTT		
Q. C. SOUND	23	51	50.5	130	48.0	58	3	16	17	220	237	X		X	BOTT		
DIXON ENTRANCE	48	54	43.0	133	30.0	58	3	23	02	175	194	X		X	BOTT		
DIXON ENTRANCE	49	54	30.0	133	17.0	58	3	23	03	300	316	X		X	BOTT		
DIXON ENTRANCE	50	54	15.6	133	05.0	58	3	23	06	348	375	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 58-0008
YEAR:1958 VESSEL/AGENCY: POG,OSHAWA

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. STRAIT	6	50	59.2	127	49.3	58	6	26	16	125	135	X		X	BOTT		
Q. C. SOUND	7	51	10.1	129	30.9	58	6	27		296	420	X		X	BOTT		
Q. C. SOUND	8	51	30.5	130	18.0	58	6	27	3	250	329	X		X	BOTT		
HECATE STRAIT	9	52	11.0	130	5.0	58	6	27	15	150	179	X		X	BOTT		
HECATE STRAIT	10	52	50.2	130	48.5	58	6	27	20	50	73	X		X	BOTT		
HECATE STRAIT	11	53	3.0	131	8.5	58	6	28	17	30	32	X		X	BOTT		
DIXON ENTRANCE	12	54	23.5	132	50.6	58	7	01	16	220	365	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 58-0009
YEAR:1958 VESSEL/AGENCY: POG,WHITETHROAT

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. SOUND	39	51	0.6	127	50.8	58	11	18	22	139	146	X		X	BOTT		
Q. C. SOUND	40	50	56.7	128	32.0	58	11	19	2	50	91	X		X	BOTT		
Q. C. SOUND	42	50	49.8	128	48.0	58	11	19	4	74		X		X	BOTT		
Q. C. SOUND	43	50	51.8	128	56.5	58	11	19	6	49	82	X		X	BOTT		
Q. C. SOUND	44	50	55.5	129	15.0	58	11	19	8	75	109	X		X	BOTT		
Q. C. SOUND	45	51	3.0	129	32.0	58	11	19	10	369	420	X		X	BOTT		
Q. C. SOUND	46	51	23.0	128	36.6	58	11	19	15	152	210	X		X	BOTT		
Q. C. SOUND	47	51	48.8	128	31.8	58	11	21	18	120	131	X		X	BOTT		
HECATE STRAIT	48	52	12.7	128	53.0	58	11	21	21	108	182	X		X	BOTT		
HECATE STRAIT	49	52	24.0	130	0.0	58	11	22	2	250	256	X		X	BOTT		
HECATE STRAIT	50	53	0.0	130	19.5	58	11	22	7	175	197	X		X	BOTT		
HECATE STRAIT	51	53	14.5	131	12.0	58	11	22	11	25	29	X		X	BOTT		
HECATE STRAIT	52	53	37.5	130	44.5	58	11	22	15	125	137	X		X	BOTT		
HECATE STRAIT	53	53	57.0	131	0.0	58	11	22	17	70	69	X		X	BOTT		
DIXON ENTRANCE	54	54	15.5	131	6.0	58	11	22	19	25	27	X		X	BOTT		
DIXON ENTRANCE	55	54	16.5	131	1.0	58	11	22	21	100	106	X		X	BOTT		
DIXON ENTRANCE	56	54	11.0	132	30.0	58	11	23	4	70	73	X		X	BOTT		
DIXON ENTRANCE	57	54	18.0	133	04.0	58	11	23		384	457	X		X	BOTT		
DIXON ENTRANCE	58	54	28.0	133	04.0	58	11	23		75	108	X		X	BOTT		
DIXON ENTRANCE	59	54	36.0	132	59.0	58	11	23		346	366	X		X	BOTT		
DIXON ENTRANCE	60	54	38.0	132	49.0	58	11	23		200	201	X		X	BOTT		
DIXON ENTRANCE	61	54	42.0	131	57.0	58	11	23		350	369	X		X	BOTT		
DIXON ENTRANCE	62	54	43.0	131	42.0	58	11	23		400	430	X		X	BOTT		
DIXON ENTRANCE	63	54	46.0	131	19.0	58	11	23		124	163	X		X	BOTT		
DIXON ENTRANCE	64	54	48.0	130	59.0	58	11	23		75	104	X		X	BOTT		
DIXON ENTRANCE	65	54	45.0	130	53.0	58	11	23		150	174	X		X	BOTT		

	66	54	39.0	130	47.0	58	11	23	22	208	237	X		X	BOTT		
	67	54	38.0	130	36.0	58	11	24		399	411	X		X	BOTT		
CHATHAM SOUND	68	54	19.7	130	36.5	58	11	24	2	93	120	X		X	BOTT		
CHATHAM SOUND	69	54	10.2	130	32.5	58	11	24	4	100	122	X		X	BOTT		
CHATHAM SOUND	70	54	18.0	130	52.0	58	11	25	22	150	164	X		X	BOTT		
CHATHAM SOUND	71	54	23.5	130	54.5	58	11	25	22	139	146	X		X	BOTT		
DIXON ENTRANCE	72	54	33.0	132	28.0	58	11	26	4	207	329	X		X	BOTT		
DIXON ENTRANCE	L1	54	45.0	130	53.0	58	11	23	21	150	174	X		X	BOTT		
DIXON ENTRANCE	M1	54	42.0	131	56.7	58	11	23	14	350	369	X		X	BOTT		
DIXON ENTRANCE	M2	54	43.4	131	41.5	58	11	23	16	400	430	X		X	BOTT		
DIXON ENTRANCE	M3	54	45.9	131	18.6	58	11	23	18	124	163	X		X	BOTT		
DIXON ENTRANCE	M4	54	47.8	130	59.4	58	11	23	20	75	104	X		X	BOTT		
DIXON ENTRANCE	N1	54	18.5	133	03.5	58	11	23	05	400	457	X		X	BOTT		
DIXON ENTRANCE	N2	54	28.0	133	04.0	58	11	23	07	75	108	X		X	BOTT		
DIXON ENTRANCE	N3	54	36.0	132	59.0	58	11	23	09	346	366	X		X	BOTT		
DIXON ENTRANCE	N4	54	38.0	132	49.0	58	11	23	10	200	210	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 58-0014
YEAR:1958 VESSEL/AGENCY: POG,OSHAWA

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. SOUND	15	51	0.0	129	0.0	58	7	26	13	50	73	X		X	BOTT		
Q. C. SOUND	18	51	0.0	129	0.0	58	7	27	17	68	85	X		X	BOTT		
Q. C. SOUND	19	51	9.0	129	23.0	58	7	27	20	248	274	X		X	BOTT		
Q. C. SOUND	20	51	21.0	129	48.0	58	7	27	23	200	237	X		X	BOTT		
Q. C. SOUND	21	51	35.0	130	19.0	58	7	28	2	350	411	X		X	BOTT		
Q. C. SOUND	22	51	49.0	130	48.0	58	7	28	4	175	210	X		X	BOTT		
DIXON ENTRANCE	41	54	20.0	133	00.0	58	8	01	08	345	457	X		X	BOTT		
DIXON ENTRANCE	42	54	40.0	133	30.0	58	8	01	11	250	311	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 59-0011A
YEAR:1959 VESSEL/AGENCY: POG,OSHAWA

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. SOUND	92	51	58.0	130	55.8	59	6	21	23	100	120	X		X	BOTT		
DIXON ENTRANCE	92	54	38.7	130	58.9	59	6	26	18	447	482	X		X	BOTT		
Q. C. SOUND	93	51	58.8	130	45.0	59	6	22		194	256	X		X	BOTT		
DIXON ENTRANCE	93	54	39.0	130	47.0	59	6	27	01	220	267	X		X	BOTT		
Q. C. SOUND	94	52	0.0	130	30.0	59	6	22	2	348	387	X		X	BOTT		
DIXON ENTRANCE	94	54	44.2	130	52.0	59	6	27	02	229	263	X		X	BOTT		
Q. C. SOUND	95	51	33.0	130	17.5	59	6	22	4	900	969	X		X	BOTT		
DIXON ENTRANCE	95	54	47.7	130	59.5	59	6	27	03	80	101	X		X	BOTT		
DIXON ENTRANCE	96	54	45.8	131	18.6	59	6	27	04	150	165	X		X	BOTT		
Q. C. SOUND	97	50	55.0	129	15.6	59	6	22	10	75	87	X		X	BOTT		
DIXON ENTRANCE	97	54	43.4	131	40.6	59	6	27	06	400	424	X		X	BOTT		
Q. C. SOUND	98	50	48.5	128	59.4	59	6	22	11	75	89	X		X	BOTT		
DIXON ENTRANCE	98	54	42.2	131	53.3	59	6	27	06	323	366	X		X	BOTT		
Q. C. SOUND	101	50	59.0	128	26.2	59	6	22	15	79		X		X	BOTT		
DIXON ENTRANCE	101	54	18.0	133	03.5	59	6	27	14	416	461	X		X	BOTT		
Q. C. SOUND	102	51	22.0	128	36.0	59	6	22	17	195	208	X		X	BOTT		
DIXON ENTRANCE	102	54	28.5	133	03.5	59	6	27	15	59	113	X		X	BOTT		
Q. C. SOUND	103	51	30.5	128	42.5	59	6	22	19	35	40	X		X	BOTT		
DIXON ENTRANCE	103	54	34.2	132	57.2	59	6	27	16	352	384	X		X	BOTT		
Q. C. SOUND	104	51	39.0	128	41.8	59	6	22	19	35	36	X		X	BOTT		
DIXON ENTRANCE	104	54	39.1	132	52.8	59	6	27	17	150	176	X		X	BOTT		
Q. C. SOUND	105	51	47.3	128	32.7	59	6	22	21	124	138	X		X	BOTT		
HECATE STRAIT	106	52	13.0	129	12.0	59	6	23		149	164	X		X	BOTT		
HECATE STRAIT	107	52	12.7	128	54.0	59	6	23	1	110	124	X		X	BOTT		
Q. C. SOUND	108	52	12.7	128	42.6	59	6	23	2	269	256	X		X	BOTT		
Q. C. SOUND	109	52	15.9	128	34.1	59	6	23	4	238	256	X		X	BOTT		
Q. C. SOUND	110	52	15.9	128	34.1	59	6	23	5	240	256	X		X	BOTT		
Q. C. SOUND	111	52	15.9	128	34.1	59	6	23	7	240	256	X		X	BOTT		
Q. C. SOUND	112	52	15.9	128	34.1	59	6	23	9	240	256	X		X	BOTT		

Q. C. SOUND	113	52	15.9	128	34.1	59	6	23	11	240	256	X		X	BOTT
Q. C. SOUND	114	52	15.9	128	34.1	59	6	23	13	238	256	X		X	BOTT
Q. C. SOUND	115	52	15.9	128	34.1	59	6	23	14	240	256	X		X	BOTT
Q. C. SOUND	116	52	17.1	128	34.9	59	6	23	15	40		X		X	BOTT
Q. C. SOUND	117	52	16.6	128	32.1	59	6	23	15	40		X		X	BOTT
Q. C. SOUND	118	52	14.3	128	33.9	59	6	23	15	40		X		X	BOTT
Q. C. SOUND	119	52	15.4	128	37.8	59	6	23	16	40		X		X	BOTT
Q. C. SOUND	120	52	15.9	128	34.1	59	6	23	16	240	256	X		X	BOTT
Q. C. SOUND	121	52	15.9	128	34.1	59	6	23	19	240	256	X		X	BOTT
Q. C. SOUND	122	52	15.9	128	34.1	59	6	23	21	240	256	X		X	BOTT
Q. C. SOUND	123	52	15.9	128	34.1	59	6	23	23	240	256	X		X	BOTT
Q. C. SOUND	124	52	15.9	128	34.1	59	6	24	1	240	256	X		X	BOTT
Q. C. SOUND	125	52	14.3	128	33.9	59	6	24	1	40		X		X	BOTT
Q. C. SOUND	126	52	16.6	128	32.1	59	6	24	1	40		X		X	BOTT
Q. C. SOUND	127	52	17.1	128	34.9	59	6	24	1	40		X		X	BOTT
Q. C. SOUND	128	52	15.9	128	34.1	59	6	24	3	240	256	X		X	BOTT
Q. C. SOUND	129	52	15.4	128	37.8	59	6	24	3	40		X		X	BOTT
Q. C. SOUND	130	52	15.9	128	34.1	59	6	24	4	238	256	X		X	BOTT
HECATE STRAIT	131	52	24.0	130	0.0	59	6	24	10	244	256	X		X	BOTT
HECATE STRAIT	132	53	0.0	129	56.0	59	6	24	14	200	248	X		X	BOTT
HECATE STRAIT	133	52	58.0	129	45.5	59	6	24	15	174	201	X		X	BOTT
HECATE STRAIT	134	53	0.0	130	15.5	59	6	24	17	192	212	X		X	BOTT
HECATE STRAIT	135	53	15.0	131	13.0	59	6	24	21	20	29	X		X	BOTT
HECATE STRAIT	136	53	13.4	131	27.8	59	6	24	22	25	29	X		X	BOTT
HECATE STRAIT	137	53	15.2	131	37.3	59	6	24	23	15	21	X		X	BOTT
HECATE STRAIT	138	53	37.5	130	54.0	59	6	25	2	50	58	X		X	BOTT
HECATE STRAIT	139	53	37.5	130	44.0	59	6	25	3	89	146	X		X	BOTT
HECATE STRAIT	140	53	37.5	130	36.0	59	6	25	4	61	65	X		X	BOTT
HECATE STRAIT	141	53	55.6	130	58.5	59	6	25	7	70	76	X		X	BOTT
DIXON ENTRANCE	142	54	18.5	131	14.0	59	6	25	9	70	84	X		X	BOTT
DIXON ENTRANCE	143	54	18.5	131	4.5	59	6	25	10	90	106	X		X	BOTT
CHATHAM SOUND	144	54	19.0	130	52.0	59	6	25	11	124	138	X		X	BOTT
CHATHAM SOUND	145	54	21.0	130	49.8	59	6	25	11	60	117	X		X	BOTT
CHATHAM SOUND	146	54	10.3	130	32.3	59	6	25	13	99	120	X		X	BOTT
CHATHAM SOUND	147	54	19.7	130	37.2	59	6	26	16	190	201	X		X	BOTT
DIXON ENTRANCE	148	54	38.7	130	58.9	59	6	26	18	447	482	X		X	BOTT
DIXON ENTRANCE	149	54	39.0	130	47.0	59	6	27	1	220	267	X		X	BOTT
DIXON ENTRANCE	155	54	25.4	132	11.8	59	6	27	9	297	336	X		X	BOTT
DIXON ENTRANCE	156	54	10.5	132	28.5	59	6	27	12	70	78	X		X	BOTT
Q. C. SOUND	174	51	33.0	130	18.0	59	6	29	19	738	932	X		X	BOTT
Q. C. SOUND	176	51	0.5	127	50.1	59	6	30	3	125	138	X		X	BOTT

BOTTLE/CTD DATA SET NUMBER: 59-0011B
YEAR:1959 VESSEL/AGENCY: FOG,OSHAWA

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
DIXON ENTRANCE	54	54	18.0	133	00.0	59	12	3	08	400		X		X	BOTT		
DIXON ENTRANCE	55	54	25.0	132	58.0	59	12	3	09	175	201	X		X	BOTT		
DIXON ENTRANCE	56	54	32.0	132	59.0	59	12	3	11	314	627	X		X	BOTT		
DIXON ENTRANCE	57	54	37.0	132	39.0	59	12	3	16	98	124	X		X	BOTT		
DIXON ENTRANCE	58	54	42.0	131	54.0	59	12	3	19	300	365	X		X	BOTT		
DIXON ENTRANCE	59	54	43.0	131	35.0	59	12	3	21	221	237	X		X	BOTT		
DIXON ENTRANCE	60	54	46.0	131	18.0	59	12	3	22	175	183	X		X	BOTT		
DIXON ENTRANCE	61	54	48.0	131	00.0	59	12	3	23	100	113	X		X	BOTT		
DIXON ENTRANCE	62	54	44.0	130	52.0	59	12	4		230		X		X	BOTT		
DIXON ENTRANCE	63	54	40.0	130	52.0	59	12	4	1	275		X		X	BOTT		
DIXON ENTRANCE	64	54	39.0	130	37.0	59	12	4	3	316		X		X	BOTT		
CHATHAM SOUND	65	54	20.0	130	36.0	59	12	4	5	100	107	X		X	BOTT		
DIXON ENTRANCE	66	54	20.0	131	14.0	59	12	4	7	71	76	X		X	BOTT		
CHATHAM SOUND	67	54	10.0	130	33.0	59	12	6	19	123		X		X	BOTT		
CHATHAM SOUND	68	54	20.0	130	46.0	59	12	6	20	50	65	X		X	BOTT		
CHATHAM SOUND	69	54	19.0	130	51.0	59	12	6	21	150		X		X	BOTT		
DIXON ENTRANCE	70	54	19.0	131	4.0	59	12	6	22	80		X		X	BOTT		
HECATE STRAIT	71	53	56.0	130	59.0	59	12	7		58	82	X		X	BOTT		
HECATE STRAIT	72	53	38.0	130	54.0	59	12	7	3	40	45	X		X	BOTT		
HECATE STRAIT	73	53	39.0	130	45.0	59	12	7	3	100	120	X		X	BOTT		
HECATE STRAIT	74	53	39.0	130	37.0	59	12	7	4	48	58	X		X	BOTT		
HECATE STRAIT	75	53	39.0	130	37.0	59	12	7	9	40	54	X		X	BOTT		
HECATE STRAIT	76	53	39.0	130	44.0	59	12	7	9	80	102	X		X	BOTT		
HECATE STRAIT	77	53	39.0	130	56.0	59	12	7	10	40	47	X		X	BOTT		
HECATE STRAIT	78	53	15.0	131	10.0	59	12	7	13	30		X		X	BOTT		
HECATE STRAIT	79	53	15.0	131	27.0	59	12	7	14	25	31	X		X	BOTT		
HECATE STRAIT	80	53	15.0	131	37.0	59	12	7	15	16	32	X		X	BOTT		

SKIDEGATE CH.	81	53	14.0	132	1.0	59	12	7	17	75	80	X		X	BOTT		
HECATE STRAIT	82	52	59.0	130	16.0	59	12	8	22	200	219	X		X	BOTT		
HECATE STRAIT	83	53	0.0	129	58.0	59	12	9		215	234	X		X	BOTT		
HECATE STRAIT	84	52	28.0	130	0.0	59	12	9	3	130	274	X		X	BOTT		
Q. C. SOUND	85	52	16.0	128	36.0	59	12	9	19	177		X		X	BOTT		
Q. C. SOUND	86	52	12.0	128	43.0	59	12	9	20	173	241	X		X	BOTT		
Q. C. SOUND	87	51	26.0	127	49.0	59	12	10	2	90	100	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 59-0011C
YEAR:1959 VESSEL/AGENCY: OSHAWA

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. SOUND	51	51	33.5	130	17.5	59	4	13	2	858	950		X	X	BOTT		
Q. C. SOUND	53	50	55.5	129	15.3	59	4	13	7	79	109		X	X	BOTT		
Q. C. SOUND	57	50	59.0	128	26.2	59	4	13	12	76	82		X	X	BOTT		
Q. C. SOUND	58	51	0.5	127	51.0	59	4	13	14	125	118		X	X	BOTT		
Q. C. SOUND	62	51	25.5	127	49.7	59	4	14	5	90	100		X	X	BOTT		
Q. C. SOUND	63	51	22.0	128	36.5	59	4	14	8	130	201		X	X	BOTT		
Q. C. SOUND	64	51	30.1	128	42.5	59	4	14	10	34	38		X	X	BOTT		
Q. C. SOUND	65	51	39.5	128	41.7	59	4	14	11	34	38		X	X	BOTT		
Q. C. SOUND	66	51	48.0	128	34.7	59	4	14	13	128	135		X	X	BOTT		
HECATE STRAIT	67	52	10.7	129	11.7	59	4	14	16	150	155		X	X	BOTT		
HECATE STRAIT	68	52	10.4	128	55.7	59	4	14	17	110	146		X	X	BOTT		
Q. C. SOUND	69	52	12.5	128	42.2	59	4	14	18	174	182		X	X	BOTT		
Q. C. SOUND	70	52	15.7	128	35.7	59	4	14	21	240	239		X	X	BOTT		
Q. C. SOUND	71	52	15.7	128	35.7	59	4	14	22	240	239		X	X	BOTT		
Q. C. SOUND	72	52	15.7	128	35.7	59	4	14	23	240	239		X	X	BOTT		
Q. C. SOUND	73	52	15.7	128	35.7	59	4	15		240	239		X	X	BOTT		
Q. C. SOUND	74	52	15.7	128	35.7	59	4	15	1	240	239		X	X	BOTT		
Q. C. SOUND	75	52	15.7	128	35.7	59	4	15	2	240	239		X	X	BOTT		
Q. C. SOUND	76	52	15.7	128	35.7	59	4	15	5	240	239		X	X	BOTT		
Q. C. SOUND	77	52	15.7	128	35.7	59	4	15	7	240	239		X	X	BOTT		
Q. C. SOUND	78	52	15.7	128	35.7	59	4	15	9	240	239		X	X	BOTT		
Q. C. SOUND	79	52	15.7	128	35.7	59	4	15	11	240	239		X	X	BOTT		
Q. C. SOUND	80	52	15.7	128	35.7	59	4	15	13	240	239		X	X	BOTT		
Q. C. SOUND	81	52	15.7	128	35.7	59	4	15	15	240	239		X	X	BOTT		
Q. C. SOUND	82	52	15.7	128	35.7	59	4	15	17	240	239		X	X	BOTT		
Q. C. SOUND	83	52	15.7	128	35.7	59	4	15	19	240	239		X	X	BOTT		
HECATE STRAIT	84	52	25.0	130	0.0	59	4	16	1	184	265		X	X	BOTT		
HECATE STRAIT	85	52	50.8	129	44.8	59	4	16	5	196	219		X	X	BOTT		
HECATE STRAIT	86	53	0.2	129	55.2	59	4	16	6	80	91		X	X	BOTT		
HECATE STRAIT	87	53	0.2	130	15.0	59	4	16	8	200	202		X	X	BOTT		
HECATE STRAIT	88	53	13.0	131	14.0	59	4	16	12	30	31		X	X	BOTT		
HECATE STRAIT	89	53	15.0	131	28.0	59	4	16	13	22	23		X	X	BOTT		
HECATE STRAIT	90	53	15.0	131	37.3	59	4	16	14	20	20		X	X	BOTT		
HECATE STRAIT	91	53	37.8	130	53.5	59	4	16	17	40	45		X	X	BOTT		
HECATE STRAIT	92	53	37.8	130	44.3	59	4	16	18	122	146		X	X	BOTT		
HECATE STRAIT	93	53	37.6	130	36.8	59	4	16	19	48	54		X	X	BOTT		
HECATE STRAIT	94	53	55.6	130	58.4	59	4	16	21	68	73		X	X	BOTT		
DIXON ENTRANCE	95	54	16.0	131	8.1	59	4	16	23	25	20		X	X	BOTT		
DIXON ENTRANCE	96	54	16.7	131	1.2	59	4	17		109	118		X	X	BOTT		
CHATHAM SOUND	97	54	19.0	130	54.0	59	4	17	1	198	210		X	X	BOTT		
CHATHAM SOUND	98	54	10.1	130	32.3	59	4	18	15	180	182		X	X	BOTT		
CHATHAM SOUND	99	54	19.6	130	37.3	59	4	18	17	160	160		X	X	BOTT		
DIXON ENTRANCE	100	54	38.8	130	39.0	59	4	18	19	472	475		X	X	BOTT		
DIXON ENTRANCE	101	54	39.0	130	47.0	59	4	18	20	202	246		X	X	BOTT		
DIXON ENTRANCE	102	54	44.0	130	51.6	59	4	18	22	245	247		X	X	BOTT		
DIXON ENTRANCE	103	54	47.8	131	00.0	59	4	18	23	85	91		X	X	BOTT		
DIXON ENTRANCE	104	54	45.7	131	18.5	59	4	19	00	155	155		X	X	BOTT		
DIXON ENTRANCE	105	54	43.5	131	42.2	59	4	19	02	430	439		X	X	BOTT		
DIXON ENTRANCE	106	54	42.2	131	53.4	59	4	19	3	353	365		X	X	BOTT		
DIXON ENTRANCE	107	54	25.0	132	12.2	59	4	19	5	312	329		X	X	BOTT		
DIXON ENTRANCE	108	54	10.6	132	28.2	59	4	19	7	70	73		X	X	BOTT		
DIXON ENTRANCE	109	54	18.4	133	03.3	59	4	19	9	436	448		X	X	BOTT		
DIXON ENTRANCE	110	54	28.4	133	03.3	59	4	19	11	65	73		X	X	BOTT		
DIXON ENTRANCE	111	54	34.0	132	58.8	59	4	19	12	358	384		X	X	BOTT		
DIXON ENTRANCE	112	54	39.2	132	52.8	59	4	19	13	161	174		X	X	BOTT		
Q. C. SOUND	126	51	58.0	130	55.8	59	4	21	14	120	120		X	X	BOTT		
Q. C. SOUND	127	52	0.0	130	30.0	59	4	21	16	334	354		X	X	BOTT		
Q. C. SOUND	128	51	33.0	130	17.0	59	4	21	18	313	336		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 59-0018
YEAR:1959   VESSEL/AGENCY: POG,OSHAWA

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
DIXON ENTRANCE	27	54	15.0	133	20.0	59	01	28	08	303	432	X		X	BOTT		
DIXON ENTRANCE	28	54	32.0	133	00.0	59	01	31	01	325	357	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 59-0019
YEAR:1959   VESSEL/AGENCY: POG,OSHAWA

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
DIXON ENTRANCE	65	54	36.0	133	30.0	59	08	26	08	272		X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 60-0011
YEAR:1960   VESSEL/AGENCY: POG,OSHAWA

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
DIXON ENTRANCE	78	54	18.0	133	04.0	60	8	28	19	425	457	X		X	BOTT		
DIXON ENTRANCE	79	54	23.0	131	22.0	60	8	29	2	200	219	X		X	BOTT		
DIXON ENTRANCE	80	54	13.0	131	16.0	60	8	29	4	25	29	X		X	BOTT		
DIXON ENTRANCE	81	54	15.0	131	1.0	60	8	29	6	75	91	X		X	BOTT		
DIXON ENTRANCE	82	54	36.0	133	00.0	60	8	31	02	375	397	X		X	BOTT		
DIXON ENTRANCE	100	51	31.0	130	32.0	60	9	6	3	1210	1536	X		X	BOTT		
Q. C. SOUND	101	51	14.0	129	36.0	60	9	6	7	240	265	X		X	BOTT		
Q. C. SOUND	102	51	23.0	128	54.0	60	9	6	10	185	199	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 60-0012
YEAR:1960   VESSEL/AGENCY: POG,OSHAWA

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. SOUND	13	51	2.0	127	52:0	60	10	21		127	146	X		X	BOTT		
Q. C. SOUND	14	51	20.0	128	54.0	60	10	21	4	199	223	X		X	BOTT		
Q. C. SOUND	15	51	53.0	128	39.0	60	10	21	7	131	142	X		X	BOTT		
HECATE STRAIT	16	52	10.0	128	45.0	60	10	21	9	211	237	X		X	BOTT		
HECATE STRAIT	17	52	52.0	129	30.0	60	10	21	15	227	274	X		X	BOTT		
HECATE STRAIT	18	53	1.0	130	16.0	60	10	21	18	200	223	X		X	BOTT		
HECATE STRAIT	19	53	38.0	130	44.0	60	10	21	22	133	149	X		X	BOTT		
DIXON ENTRANCE	20	54	11.0	131	5.0	60	10	22		70	84	X		X	BOTT		
DIXON ENTRANCE	21	54	16.0	131	2.0	60	10	22	1	93	113	X		X	BOTT		
CHATHAM SOUND	22	54	21.0	130	35.0	60	10	23	16	84	89	X		X	BOTT		
DIXON ENTRANCE	23	54	42.0	130	56.0	60	10	23	19	341	365	X		X	BOTT		
DIXON ENTRANCE	24	54	43.0	131	40.0	60	10	23	21	297	310	X		X	BOTT		
DIXON ENTRANCE	25	54	16.0	131	25.0	60	10	24		30	40	X		X	BOTT		
DIXON ENTRANCE	26	54	34.0	132	52.0	60	10	24	05	334	373	X		X	BOTT		
DIXON ENTRANCE	27	54	18.0	133	05.0	60	10	24	07	428	446	X		X	BOTT		
DIXON ENTRANCE	29	54	46.0	130	57.0	60	10	26	04	230	307	X		X	BOTT		
Q. C. SOUND	30	51	37.0	130	18.0	60	10	26	7	306	416	X		X	BOTT		
Q. C. SOUND	31	51	08.0	129	40.0	60	10	26	11	250	274	X		X	BOTT		
Q. C. SOUND	32	50	49.0	129	00.0	60	10	26	12	100	108	X		X	BOTT		
SMITH INLET	33	51	18.0	127	39.0	60	10	26	19	150	168	X		X	BOTT		
SMITH INLET	34	51	18.0	127	21.0	60	10	26	21	300	356	X		X	BOTT		
SMITH INLET	35	51	19.0	127	16.0	60	10	26	22	250	274	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 61-0016
YEAR:1961 VESSEL/AGENCY: POG,OSHAWA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
Q. C. SOUND	86	50	55.0	128	27.0	61	4	12	15	50	54	X		X	BOTT		
Q. C. SOUND	87	51	7.0	128	31.0	61	4	12	17	121	137	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 61-0017A
YEAR:1961 VESSEL/AGENCY: POG,WHITETHROAT

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
Q. C. SOUND	32	50	54.0	128	27.0	61	7	28	1	52	49	X		X	BOTT		
Q. C. SOUND	33	51	5.0	128	43.0	61	7	28	4	123	128	X		X	BOTT		
Q. C. SOUND	34	51	22.0	128	43.0	61	7	28	6	215	219	X		X	BOTT		
Q. C. SOUND	35	51	33.0	128	49.0	61	7	28	8	39	40	X		X	BOTT		
Q. C. SOUND	36	51	38.0	128	42.0	61	7	28	9	35	36	X		X	BOTT		
Q. C. SOUND	37	51	45.0	128	33.0	61	7	28	10	148	146	X		X	BOTT		
Q. C. SOUND	38	51	50.0	128	29.0	61	7	28	11	106	91	X		X	BOTT		
Q. C. SOUND	39	51	53.0	128	39.0	61	7	28	13	137	133	X		X	BOTT		
Q. C. SOUND	40	51	50.0	129	8.0	61	7	28	16	113	118	X		X	BOTT		
Q. C. SOUND	41	51	51.0	129	31.0	61	7	28	18	235	237	X		X	BOTT		
Q. C. SOUND	42	51	33.0	129	25.0	61	7	28	20	60	64	X		X	BOTT		
Q. C. SOUND	43	51	22.0	129	23.0	61	7	28	22	210	210	X		X	BOTT		
Q. C. SOUND	44	51	12.0	129	20.0	61	7	29		197	237	X		X	BOTT		
Q. C. SOUND	45	51	4.0	129	35.0	61	7	29	2	242	228	X		X	BOTT		
Q. C. SOUND	46	51	0.0	129	16.0	61	7	29	3	157	146	X		X	BOTT		
Q. C. SOUND	47	50	53.0	129	13.0	61	7	29	5	71	64	X		X	BOTT		
Q. C. SOUND	51	51	38.0	130	19.0	61	7	29	20	220	219	X		X	BOTT		
Q. C. SOUND	52	51	53.0	130	49.0	61	7	29	23	30	36	X		X	BOTT		
HECATE STRAIT	53	52	22.0	130	49.0	61	7	30	21	120	118	X		X	BOTT		
HECATE STRAIT	54	52	50.0	130	47.0	61	7	31		48	49	X		X	BOTT		
HECATE STRAIT	55	52	56.0	130	32.0	61	7	31	1	123	118	X		X	BOTT		
HECATE STRAIT	56	53	2.0	130	14.0	61	7	31	3	193	201	X		X	BOTT		
HECATE STRAIT	57	53	7.0	130	2.0	61	7	31	5	121	100	X		X	BOTT		
HECATE STRAIT	58	53	39.0	130	57.0	61	7	31	10	45	49	X		X	BOTT		
HECATE STRAIT	59	53	39.0	130	44.0	61	7	31	11	134	137	X		X	BOTT		
HECATE STRAIT	60	53	39.0	130	35.0	61	7	31	12	25	27	X		X	BOTT		
HECATE STRAIT	61	53	57.0	131	1.0	61	7	31	14	68	78	X		X	BOTT		
CHATHAM SOUND	62	54	11.0	130	54.0	61	7	31	16	98	100	X		X	BOTT		
DIXON ENTRANCE	63	54	11.0	131	4.0	61	7	31	17	92		X		X	BOTT		
DIXON ENTRANCE	64	54	11.0	131	11.0	61	7	31	18	30	31	X		X	BOTT		
DIXON ENTRANCE	65	54	22.0	131	10.0	61	7	31	20	61	64	X		X	BOTT		
DIXON ENTRANCE	66	54	24.0	131	21.0	61	7	31	21	215	228	X		X	BOTT		
DIXON ENTRANCE	67	54	20.0	131	18.0	61	7	31	22	117	124	X		X	BOTT		
DIXON ENTRANCE	68	54	22.0	131	5.0	61	7	31	23	100	104	X		X	BOTT		
CHATHAM SOUND	69	54	19.0	130	54.0	61	8	1		100	109	X		X	BOTT		
CHATHAM SOUND	70	54	18.0	130	41.0	61	8	1	1	180	182	X		X	BOTT		
DIXON ENTRANCE	71	54	40.0	130	54.0	61	8	2	21	173	237	X		X	BOTT		
DIXON ENTRANCE	75	54	38.0	132	0.0	61	8	3	4	164	182	X		X	BOTT		
DIXON ENTRANCE	76	54	31.0	131	59.0	61	8	3	5	246	274	X		X	BOTT		
DIXON ENTRANCE	77	54	22.0	132	1.0	61	8	3	7	244	246	X		X	BOTT		
DIXON ENTRANCE	78	54	14.0	132	0.0	61	8	3	9	140	138	X		X	BOTT		
DIXON ENTRANCE	79	54	12.0	132	39.0	61	8	3	11	100	100	X		X	BOTT		
DIXON ENTRANCE	80	54	18.0	133	03.0	61	8	3	14	400	430	X		X	BOTT		
DIXON ENTRANCE	81	54	25.0	132	53.0	61	8	3	15	300	338	X		X	BOTT		
DIXON ENTRANCE	82	54	33.0	132	49.0	61	8	3	17	300		X		X	BOTT		
DIXON ENTRANCE	83	54	39.0	132	42.0	61	8	3	19	94		X		X	BOTT		
DIXON ENTRANCE	84	54	42.0	133	07.0	61	8	3	21	165	161	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 61-0017B
YEAR:1961 VESSEL/AGENCY: POG,OSHAWA

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. SOUND	32	50	54.0	128	27.0	61	10	4	2	49	53	X		X	BOTT		
Q. C. SOUND	33	51	7.0	128	33.0	61	10	4	4	148	151	X		X	BOTT		
Q. C. SOUND	34	51	22.0	128	43.0	61	10	4	7	213	219	X		X	BOTT		
Q. C. SOUND	35	51	33.0	128	49.0	61	10	4	9	33	38	X		X	BOTT		
Q. C. SOUND	36	51	38.0	128	42.0	61	10	4	10	30	32	X		X	BOTT		
Q. C. SOUND	37	51	50.0	128	49.0	61	10	4	12	60	69	X		X	BOTT		
Q. C. SOUND	38	51	49.0	129	8.0	61	10	4	13	100	109	X		X	BOTT		
Q. C. SOUND	39	51	51.0	129	30.0	61	10	4	16	220	223	X		X	BOTT		
Q. C. SOUND	40	51	33.0	129	27.0	61	10	4	19	53	54	X		X	BOTT		
Q. C. SOUND	41	51	22.0	129	22.0	61	10	4	21	132	137	X		X	BOTT		
Q. C. SOUND	42	51	12.0	129	20.0	61	10	4	23	275	292	X		X	BOTT		
Q. C. SOUND	43	51	0.0	129	16.0	61	10	5	1	153	151	X		X	BOTT		
Q. C. SOUND	48	51	34.0	130	18.0	61	10	5	18	533	685	X		X	BOTT		
Q. C. SOUND	50	52	0.0	130	48.0	61	10	6	2	249	274	X		X	BOTT		
HECATE STRAIT	51	52	22.0	130	48.0	61	10	6	5	111	128	X		X	BOTT		
HECATE STRAIT	52	52	50.0	130	47.0	61	10	6	8	50	51	X		X	BOTT		
HECATE STRAIT	53	52	56.0	130	32.0	61	10	6	10	94	96	X		X	BOTT		
HECATE STRAIT	54	53	0.0	130	17.0	61	10	6	12	208	215	X		X	BOTT		
HECATE STRAIT	55	53	5.0	130	3.0	61	10	6	13	101	107	X		X	BOTT		
HECATE STRAIT	56	53	39.0	130	57.0	61	10	6	18	37	45	X		X	BOTT		
HECATE STRAIT	57	53	39.0	130	44.0	61	10	6	20	128	129	X		X	BOTT		
HECATE STRAIT	58	53	39.0	130	35.0	61	10	6	21	35	38	X		X	BOTT		
HECATE STRAIT	59	53	57.0	131	1.0	61	10	6	23	81	82	X		X	BOTT		
CHATHAM SOUND	60	54	11.0	130	54.0	61	10	7	1	52	58	X		X	BOTT		
DIXON ENTRANCE	61	54	11.0	131	2.0	61	10	7	2	86	91	X		X	BOTT		
DIXON ENTRANCE	62	54	11.0	131	11.0	61	10	7	3	22	27	X		X	BOTT		
DIXON ENTRANCE	63	54	20.0	131	18.0	61	10	7	5	107	124	X		X	BOTT		
DIXON ENTRANCE	64	54	24.0	131	22.0	61	10	7	6	215	223	X		X	BOTT		
DIXON ENTRANCE	65	54	22.0	131	10.0	61	10	7	8	59	69	X		X	BOTT		
DIXON ENTRANCE	66	54	22.0	131	5.0	61	10	7	8	93	91	X		X	BOTT		
CHATHAM SOUND	67	54	19.0	130	52.0	61	10	7	16	92	93	X		X	BOTT		
CHATHAM SOUND	68	54	18.0	130	41.0	61	10	7	18	196	195	X		X	BOTT		
DIXON ENTRANCE	69	54	40.0	130	53.0	61	10	8	19	394	460	X		X	BOTT		
DIXON ENTRANCE	70	54	45.0	130	53.0	61	10	8	21	205	274	X		X	BOTT		
DIXON ENTRANCE	71	54	44.0	131	11.0	61	10	8	23	250	256	X		X	BOTT		
DIXON ENTRANCE	72	54	43.0	131	40.0	61	10	9	01	250	366	X		X	BOTT		
DIXON ENTRANCE	73	54	38.0	132	0.0	61	10	9	4	228	256	X		X	BOTT		
DIXON ENTRANCE	74	54	31.0	131	59.0	61	10	9	6	318	310	X		X	BOTT		
DIXON ENTRANCE	75	54	21.0	131	58.0	61	10	9	8	224	237	X		X	BOTT		
DIXON ENTRANCE	76	54	12.0	131	58.0	61	10	9	9	96	100	X		X	BOTT		
DIXON ENTRANCE	77	54	12.0	132	30.0	61	10	9	12	90	100	X		X	BOTT		
DIXON ENTRANCE	78	54	18.0	133	03.0	61	10	9	14	381	454	X		X	BOTT		
DIXON ENTRANCE	79	54	26.0	132	56.0	61	10	9	17	287	324	X		X	BOTT		
DIXON ENTRANCE	80	54	33.0	132	49.0	61	10	9	18	300	365	X		X	BOTT		
DIXON ENTRANCE	81	54	39.0	132	43.0	61	10	9	19	100	100	X		X	BOTT		
DIXON ENTRANCE	82	54	42.0	133	07.0	61	10	9	21	158	168	X		X	BOTT		
DIXON ENTRANCE	88	54	12.0	132	30.0	61	10	10	11	80	82	X		X	BOTT		
DIXON ENTRANCE	89	54	12.0	131	58.0	61	10	10	13	90	95	X		X	BOTT		
DIXON ENTRANCE	90	54	21.0	131	58.0	61	10	10	14	258	89	X		X	BOTT		
DIXON ENTRANCE	91	54	31.0	131	59.0	61	10	10	16	275	270	X		X	BOTT		
DIXON ENTRANCE	92	54	38.0	132	0.0	61	10	10	18	177	186	X		X	BOTT		
DIXON ENTRANCE	95	54	42.0	130	54.0	61	10	10	23	200		X		X	BOTT		
CHATHAM SOUND	96	54	18.0	130	41.0	61	10	12	19	150	182	X		X	BOTT		
CHATHAM SOUND	97	54	19.0	130	54.0	61	10	12	20	54	82	X		X	BOTT		
DIXON ENTRANCE	98	54	22.0	131	5.0	61	10	12	21	72	87	X		X	BOTT		
DIXON ENTRANCE	99	54	22.0	131	10.0	61	10	12	22	54	73	X		X	BOTT		
DIXON ENTRANCE	100	54	24.0	131	22.0	61	10	12	23	147	219	X		X	BOTT		
DIXON ENTRANCE	101	54	20.0	131	18.0	61	10	13		102	120	X		X	BOTT		
DIXON ENTRANCE	102	54	11.0	131	11.0	61	10	13	2	28	32	X		X	BOTT		
DIXON ENTRANCE	103	54	11.0	131	2.0	61	10	13	3	94	100	X		X	BOTT		
HECATE STRAIT	104	53	57.0	131	1.0	61	10	13	6	74	250	X		X	BOTT		
HECATE STRAIT	105	53	40.0	130	36.0	61	10	13	9	62	64	X		X	BOTT		
HECATE STRAIT	106	53	39.0	130	44.0	61	10	13	10	98	137	X		X	BOTT		
HECATE STRAIT	107	53	39.0	130	57.0	61	10	13	11	41	51	X		X	BOTT		
Q. C. SOUND	108	51	49.0	130	41.0	61	10	15	21	289	457	X		X	BOTT		
Q. C. SOUND	109	51	34.0	130	18.0	61	10	16		590	877	X		X	BOTT		
Q. C. SOUND	113	50	53.0	129	13.0	61	10	16	13	80	80	X		X	BOTT		
Q. C. SOUND	114	51	0.0	129	16.0	61	10	16	14	159	164	X		X	BOTT		
Q. C. SOUND	116	51	12.0	129	20.0	61	10	16	18	271	332	X		X	BOTT		
Q. C. SOUND	117	51	22.0	129	22.0	61	10	16	20	160	179	X		X	BOTT		
Q. C. SOUND	118	51	33.0	129	26.0	61	10	16	21	40	54	X		X	BOTT		

Q. C. SOUND	119	51	51.0	129	31.0	61	10	16	23	225	237	X		X	BOTT		
Q. C. SOUND	120	51	50.0	129	8.0	61	10	17	1	120	124	X		X	BOTT		
Q. C. SOUND	121	51	50.0	128	49.0	61	10	17	2	67	73	X		X	BOTT		
Q. C. SOUND	122	51	38.0	128	42.0	61	10	17	4	40	47	X		X	BOTT		
Q. C. SOUND	123	51	33.0	128	49.0	61	10	17	5	40	45	X		X	BOTT		
Q. C. SOUND	124	51	22.0	128	43.0	61	10	17	6	225	219	X		X	BOTT		
Q. C. SOUND	125	51	7.0	128	33.0	61	10	17	8	100	109	X		X	BOTT		
Q. C. SOUND	126	50	54.0	128	27.0	61	10	17	10	40	58	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 61-0018
YEAR:1961 VESSEL/AGENCY: POG,OSHAWA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
DIXON ENTRANCE	12	54	18.0	133	04.0	61	2	12	01	400	461	X		X	BOTT		
DIXON ENTRANCE	13	54	34.0	132	50.0	61	2	12	03	280	366	X		X	BOTT		
DIXON ENTRANCE	14	54	42.7	131	40.0	61	2	12	06	346	417	X		X	BOTT		
DIXON ENTRANCE	15	54	42.0	130	56.0	61	2	12	9	290	320	X		X	BOTT		
DIXON ENTRANCE	16	54	22.0	131	18.0	61	2	12	12	145	160	X		X	BOTT		
DIXON ENTRANCE	17	54	12.0	131	16.0	61	2	12	16	25	32	X		X	BOTT		
DIXON ENTRANCE	18	54	15.0	131	2.0	61	2	12	17	100	106	X		X	BOTT		
CHATHAM SOUND	19	54	10.0	130	32.0	61	2	12	20	118	173	X		X	BOTT		
HECATE STRAIT	20	53	37.2	130	42.8	61	2	14	1	117	124	X		X	BOTT		
HECATE STRAIT	21	52	59.0	130	16.0	61	2	14	5	200	212	X		X	BOTT		
HECATE STRAIT	22	52	53.5	.29	32.0	61	2	14	8	195	285	X		X	BOTT		
CAPE ST. JAMES	23	51	54.6	131	04.4	61	2	14	15	188	417	X		X	BOTT		
Q. C. SOUND	24	51	34.0	130	17.0	61	2	14	18	610	676	X		X	BOTT		
HECATE STRAIT	25	52	11.0	129	12.0	61	2	14	22	125	157	X		X	BOTT		
Q. C. SOUND	26	52	12.4	128	42.3	61	2	15	1	249	256	X		X	BOTT		
Q. C. SOUND	27	51	53.0	128	39.0	61	2	15	3	121	142	X		X	BOTT		
Q. C. SOUND	28	51	20.0	128	54.0	61	2	15	6	169	234	X		X	BOTT		
Q. C. SOUND	29	51	10.0	129	35.0	61	2	15	8	282	283	X		X	BOTT		
Q. C. SOUND	30	50	49.0	129	0.0	61	2	15	11	65		X		X	BOTT		
Q. C. SOUND	31	51	2.0	127	52.0	61	2	15	16	113	153	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 61-0019
YEAR:1961 VESSEL/AGENCY: POG,OSHAWA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
DIXON ENTRANCE		54	15.0	133	26.0	61	6	7		397	420	X		X	BOTT		
DIXON ENTRANCE	78	54	37.0	132	59.0	61	6	3	08	300	384	X		X	BOTT		
DIXON ENTRANCE	79	54	23.0	131	21.0	61	6	3	14	175	197	X		X	BOTT		
DIXON ENTRANCE	80	54	12.0	131	15.0	61	6	3	15	25	31	X		X	BOTT		
DIXON ENTRANCE	81	54	15.0	131	2.0	61	6	3	16	100	120	X		X	BOTT		
DIXON ENTRANCE	82	54	18.0	133	04.0	61	6	7	21	400	457	X		X	BOTT		
Q. C. SOUND	109	51	34.0	130	18.0	61	6	14	7	757	804	X		X	BOTT		
Q. C. SOUND	111	51	20.0	128	54.0	61	6	14	13	200	219	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 61-0020
YEAR:1961 VESSEL/AGENCY: STRANGER,...

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
DIXON ENTRANCE	1	54	20.0	131	34.0	61	9	2	20	160	175	X		X	BOTT		
DIXON ENTRANCE	2	54	26.0	131	34.0	61	9	2	23	151	256	X		X	BOTT		

DIXON ENTRANCE	3	54	13.0	131	48.0	61	9	3	22	124	133	X		X	BOTT		
DIXON ENTRANCE	4	54	13.0	131	48.0	61	9	4		100	115	X		X	BOTT		
DIXON ENTRANCE	5	54	13.0	132	15.0	61	9	4	2	121	149	X		X	BOTT		
DIXON ENTRANCE	10	54	26.0	131	34.5	61	9	3	23	134	256	X		X	BOTT		
DIXON ENTRANCE	11	54	13.0	131	48.0	61	9	4		97	115	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 61-0021
YEAR:1961 VESSEL/AGENCY: OSHAWA

AREA	STN	LAT		LON		DATE				CAST TO	WATER DEPTH	PARAM MEAS			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	(M)	(M)	C	S	T		HR	
HECATE STRAIT	10	52	50.5	131	05.0	61	07	11		25			X	X	BOTT		
HECATE STRAIT	11	53	30.0	131	32.0	61	07	12		25			X	X	BOTT		
HECATE STRAIT	12	52	52.0	130	10.0	61	07	12		193			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 61-0022
YEAR:1961 VESSEL/AGENCY: EHKOLI

AREA	STN	LAT		LON		DATE				CAST TO	WATER DEPTH	PARAM MEAS			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR *PST	(M)	(M)	C	S	T		HR	
BC INLETS	P1	54	20.5	130	16.9	61	09	15	06 *	50	58	X		X	BOTT		
BC INLETS	P2	54	18.7	130	21.45	61	09	15	07	50	70	X		X	BOTT		
BC INLETS	P3	54	16.9	130	21.85	61	09	15	09	40	40	X		X	BOTT		
BC INLETS	P4	54	13.97	130	20.8	61	09	15	11	40	42	X		X	BOTT		
BC INLETS	P5	54	13.5	130	24.0	61	09	15	12	50	52	X		X	BOTT		
BC INLETS	P6	54	12.85	130	29.0	61	09	15	14	100	102	X		X	BOTT		
BC INLETS	P7	54	12.5	130	20.35	61	09	15	15	20	26	X		X	BOTT		
BC INLETS	P8	54	11.95	130	18.6	61	09	16	08	20	20	X		X	BOTT		
BC INLETS	P9	54	12.5	130	17.75	61	09	16	09	20	24	X		X	BOTT		
FISHER CHANNEL	O-1	52	10.0	127	52.0	61	09	19	12	491	691	X		X	BOTT		
FISHER CHANNEL	O-2	52	13.2	127	48.8	61	09	19	14	388	530	X		X	BOTT		
FISHER CHANNEL	O-3	52	15.5	127	46.4	61	09	19	16	383	460	X		X	BOTT		
FISHER CHANNEL	O-4	52	17.3	127	45.8	61	09	20	07	75	80	X		X	BOTT		
FISHER CHANNEL	O-5	52	18.8	127	45.3	61	09	20	08	75	80	X		X	BOTT		
FISHER CHANNEL	O-6	52	19.9	127	44.3	61	09	20	10	50	70	X		X	BOTT		
FISHER CHANNEL	O-7	52	20.8	127	43.8	61	09	20	11	50	67	X		X	BOTT		
FISHER CHANNEL	O-8	52	21.4	127	43.0	61	09	20	12	50	55	X		X	BOTT		
FISHER CHANNEL	O-9	52	21.1	127	43.0	61	09	20	13	50	62	X		X	BOTT		
PRINCE RUPERT	P-1	54	20.5	130	16.9	61	09	15	06	50	59	X		X	BOTT		
PRINCE RUPERT	P-2	54	18.7	130	21.45	61	09	15	07	50	70	X		X	BOTT		
PRINCE RUPERT	P-3	54	16.9	130	21.85	61	09	15	09	40	40	X		X	BOTT		
PRINCE RUPERT	P-4	54	13.97	130	20.8	61	09	15	11	40	42	X		X	BOTT		
PRINCE RUPERT	P-5	54	13.5	130	24.0	61	09	15	12	50	52	X		X	BOTT		
PRINCE RUPERT	P-6	54	12.85	130	29.0	61	09	15	14	100	102	X		X	BOTT		
PRINCE RUPERT	P-7	54	12.5	130	20.35	61	09	15	15	20	26	X		X	BOTT		
PRINCE RUPERT	P-8	54	11.95	130	18.6	61	09	16	08	20	20	X		X	BOTT		
PRINCE RUPERT	P-9	54	12.5	130	17.75	61	09	16	09	20	24	X		X	BOTT		
BC INLETS	P10	54	13.25	130	17.6	61	09	16	10	20	22	X		X	BOTT		
BC INLETS	P11	54	13.65	130	17.9	61	09	16	12	15	18	X		X	BOTT		
BC INLETS	P12	54	13.95	130	18.1	61	09	16	12	20	22	X		X	BOTT		
BC INLETS	P13	54	14.2	130	18.4	61	09	16	14	14	16	X		X	BOTT		
BC INLETS	P14	54	14.59	130	18.4	61	09	16	15	20	24	X		X	BOTT		
BC INLETS	P15	54	14.7	130	17.4	61	09	17	14	20	25	X		X	BOTT		
BC INLETS	P17	54	14.9	130	16.4	61	09	17	15	6	7	X		X	BOTT		
BC INLETS	P18	54	15.4	130	16.0	61	09	17	16	14	15	X		X	BOTT		
FISHER CHANNEL	O-10	52	21.1	127	42.3	61	09	20	14	50	55	X		X	BOTT		
FISHER CHANNEL	O-11	52	21.15	127	41.7	61	09	21	07	30	32	X		X	BOTT		
FISHER CHANNEL	O-12	52	21.0	127	41.65	61	09	21	16	29	30	X		X	BOTT		
FISHER CHANNEL	O-13	52	20.9	127	41.8	61	09	21	09	35	39	X		X	BOTT		
FISHER CHANNEL	O-14	52	21.1	127	41.45	61	09	21	10	6	7	X		X	BOTT		
PRINCE RUPERT	P-10	54	13.25	130	17.6	61	09	16	10	20	22	X		X	BOTT		
PRINCE RUPERT	P-11	54	13.65	130	17.9	61	09	16	12	15	18	X		X	BOTT		
PRINCE RUPERT	P-12	54	13.95	130	18.1	61	09	16	12	20	22	X		X	BOTT		
PRINCE RUPERT	P-13	54	14.2	130	18.4	61	09	16	14	14	16	X		X	BOTT		
PRINCE RUPERT	P-14	54	14.59	130	18.4	61	09	16	15	20	24	X		X	BOTT		

PRINCE RUPERT	P-15	54	14.7	130	17.4	61	09	17	13	20	27	X		X	BOTT		
PRINCE RUPERT	P-16	54	14.9	130	16.8	61	09	17	14	20	25	X		X	BOTT		
PRINCE RUPERT	P-17	54	14.9	130	16.4	61	09	17	15	6	7	X		X	BOTT		
PRINCE RUPERT	P-18	54	15.4	130	16.0	61	09	17	16	14	15	X		X	BOTT		
BC INLETS	P12A	54	13.95	130	18.1	61	09	18	15	20	22	X		X	BOTT		
FISHER CHANNEL	O-12A	52	21.0	127	41.6	61	09	21	08	30	30	X		X	BOTT		
PRINCE RUPERT	P-12A	54	13.95	130	18.1	61	09	16	15	20	22	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 62-0015
YEAR:1962 VESSEL/AGENCY: POG,OSHAWA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
Q. C. SOUND	14	51	51.0	130	43.0	62	1	18	2	219	274	X		X	BOTT		
HECATE STRAIT	15	52	22.0	130	48.0	62	1	18	5	97	118	X		X	BOTT		
HECATE STRAIT	16	52	50.0	130	47.0	62	1	18	8	59	67	X		X	BOTT		
HECATE STRAIT	17	52	56.0	130	32.0	62	1	18	10	75	100	X		X	BOTT		
HECATE STRAIT	18	53	0.0	130	17.0	62	1	18	11	165	201	X		X	BOTT		
HECATE STRAIT	19	53	39.0	130	57.0	62	1	18	16	30	42	X		X	BOTT		
HECATE STRAIT	20	53	39.0	130	44.0	62	1	18	17	100	146	X		X	BOTT		
HECATE STRAIT	21	53	39.0	130	35.0	62	1	18	18	30	54	X		X	BOTT		
HECATE STRAIT	22	53	57.0	131	1.0	62	1	18	19	60	82	X		X	BOTT		
CHATHAM SOUND	23	54	11.0	130	54.0	62	1	18	21	40	54	X		X	BOTT		
DIXON ENTRANCE	24	54	11.0	131	2.0	62	1	18	21	77	98	X		X	BOTT		
DIXON ENTRANCE	25	54	11.0	131	11.0	62	1	18	22	19	25	X		X	BOTT		
CHATHAM SOUND	26	54	18.0	130	41.0	62	1	20	17	152	192	X		X	BOTT		
CHATHAM SOUND	27	54	19.0	130	53.0	62	1	20	18	80	91	X		X	BOTT		
DIXON ENTRANCE	28	54	22.0	131	5.0	62	1	20	19	80	91	X		X	BOTT		
DIXON ENTRANCE	29	54	22.0	131	10.0	62	1	20	19	60	71	X		X	BOTT		
DIXON ENTRANCE	30	54	20.0	131	18.0	62	1	20	20	91	128	X		X	BOTT		
DIXON ENTRANCE	31	54	24.0	131	22.0	62	1	20	21	127	237	X		X	BOTT		
DIXON ENTRANCE	32	54	44.0	131	11.0	62	1	20	23	250	293	X		X	BOTT		
DIXON ENTRANCE	33	54	43.0	131	40.0	62	1	21	01	250	366	X		X	BOTT		
DIXON ENTRANCE	34	54	39.0	132	0.0	62	1	21	3	166	182	X		X	BOTT		
DIXON ENTRANCE	35	54	31.0	131	59.0	62	1	21	4	246	274	X		X	BOTT		
DIXON ENTRANCE	36	54	21.0	131	58.0	62	1	21	6	222	256	X		X	BOTT		
DIXON ENTRANCE	37	54	11.0	131	58.0	62	1	21	7	97	109	X		X	BOTT		
DIXON ENTRANCE	38	54	11.0	132	30.0	62	1	21	9	80	107	X		X	BOTT		
DIXON ENTRANCE	39	54	18.0	133	03.0	62	1	21	11	400	439	X		X	BOTT		
DIXON ENTRANCE	40	54	26.0	132	36.0	62	1	21	13	75	110	X		X	BOTT		
DIXON ENTRANCE	41	54	33.0	132	49.0	62	1	21	14	325	377	X		X	BOTT		
DIXON ENTRANCE	42	54	39.0	132	43.0	62	1	21	16	60	73	X		X	BOTT		
DIXON ENTRANCE	43	54	42.0	133	07.0	62	1	21	17	158	164	X		X	BOTT		
DIXON ENTRANCE	44	54	42.0	133	29.0	62	1	21	19	175	219	X		X	BOTT		
DIXON ENTRANCE	45	54	30.0	133	26.0	62	1	21	20	265	293	X		X	BOTT		
DIXON ENTRANCE	46	54	17.0	133	24.0	62	1	21	22	372	439	X		X	BOTT		
Q. C. SOUND	52	51	33.0	130	15.0	62	1	23	9	480	768	X		X	BOTT		
Q. C. SOUND	56	50	53.0	129	13.0	62	1	23	22	60	82	X		X	BOTT		
Q. C. SOUND	57	51	0.0	129	16.0	62	1	23	23	128	164	X		X	BOTT		
Q. C. SOUND	58	51	04.0	129	35.0	62	1	24	00	322	494	X		X	BOTT		
Q. C. SOUND	59	51	12.0	129	20.0	62	1	24	2	214	457	X		X	BOTT		
Q. C. SOUND	60	51	22.0	129	22.0	62	1	24	4	135	146	X		X	BOTT		
Q. C. SOUND	61	51	33.0	129	26.0	62	1	24	5	39	54	X		X	BOTT		
Q. C. SOUND	62	51	51.0	129	31.0	62	1	24	7	193	237	X		X	BOTT		
Q. C. SOUND	63	51	50.0	129	8.0	62	1	24	9	71	111	X		X	BOTT		
Q. C. SOUND	64	51	33.0	128	49.0	62	1	24	11	30	36	X		X	BOTT		
Q. C. SOUND	65	51	22.0	128	43.0	62	1	24	12	160	182	X		X	BOTT		
Q. C. SOUND	66	51	7.0	128	33.0	62	1	24	14	160	179	X		X	BOTT		
Q. C. SOUND	67	50	54.0	128	27.0	62	1	24	16	40	51	X		X	BOTT		
Q. C. SOUND	118	50	54.0	128	27.0	62	2	2	4	38	49	X		X	BOTT		
Q. C. SOUND	119	51	7.0	128	33.0	62	2	2	5	135	142	X		X	BOTT		
Q. C. SOUND	120	51	22.0	128	43.0	62	2	2	7	178	219	X		X	BOTT		
Q. C. SOUND	121	51	33.0	128	49.0	62	2	2	8	40	47	X		X	BOTT		
Q. C. SOUND	122	51	38.0	128	42.0	62	2	2	9	20	32	X		X	BOTT		
Q. C. SOUND	123	51	53.0	128	39.0	62	2	2	10	60	74	X		X	BOTT		
Q. C. SOUND	124	51	50.0	129	8.0	62	2	2	12	80	109	X		X	BOTT		
Q. C. SOUND	125	51	51.0	129	31.0	62	2	2	13	184	212	X		X	BOTT		
Q. C. SOUND	126	51	33.0	129	26.0	62	2	2	15	40	51	X		X	BOTT		
Q. C. SOUND	127	51	22.0	129	22.0	62	2	2	17	120	128	X		X	BOTT		
Q. C. SOUND	128	51	12.0	129	20.0	62	2	2	18	271	288	X		X	BOTT		
Q. C. SOUND	129	51	4.0	129	35.0	62	2	2	20	282	438	X		X	BOTT		
Q. C. SOUND	130	51	0.0	129	16.0	62	2	2	22	115	157	X		X	BOTT		
Q. C. SOUND	134	51	34.0	130	18.0	62	2	3	8	431		X		X	BOTT		
Q. C. SOUND	137	51	52.0	130	42.0	62	2	3	17	175		X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 62-0016
YEAR:1962 VESSEL/AGENCY: POG,OSHAWA

AREA	STN	LAT		LON		DATE				CAST TO	WATER DEPTH	PARAM MEAS			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	(M)	(M)	C	S	T		HR	
DIXON ENTRANCE	77	54	34.0	133	0.0	62	6	8	11	284	384	X		X	BOTT		
DIXON ENTRANCE	78	54	23.0	131	22.0	62	6	8	16	200	237	X		X	BOTT		
DIXON ENTRANCE	79	54	12.0	131	16.0	62	6	8	17	20	27	X		X	BOTT		
DIXON ENTRANCE	80	54	15.0	131	2.0	62	6	8	17	50	64	X		X	BOTT		
DIXON ENTRANCE	81	54	18.0	133	04.0	62	6	10	20	400	450	X		X	BOTT		
Q. C. SOUND	119	51	22.0	129	22.0	62	6	23	11	144	228	X		X	BOTT		
Q. C. SOUND	120	51	19.0	128	56.0	62	6	23	13	150	237	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 62-0017
YEAR:1962 VESSEL/AGENCY: WHITETHROAT

AREA	STN	LAT		LON		DATE				CAST TO	WATER DEPTH	PARAM MEAS			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	(M)	(M)	C	S	T		HR	
Q. C. SOUND	1	51	0.0	127	50.0	62	2	15	14	125	160	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 62-0018
YEAR:1962 VESSEL/AGENCY: OSHAWA

AREA	STN	LAT		LON		DATE				CAST TO	WATER DEPTH	PARAM MEAS			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	(M)	(M)	C	S	T		HR	
DIXON ENTRANCE	4	54	12.0	132	0.0	62	9	19	19	77	91	X		X	BOTT		
DIXON ENTRANCE	5	54	20.0	132	0.0	62	9	19	20	190	237	X		X	BOTT		
DIXON ENTRANCE	6	54	26.0	132	0.0	62	9	19	21	264	301	X		X	BOTT		
DIXON ENTRANCE	7	54	31.0	132	0.0	62	9	19	22	238	283	X		X	BOTT		
DIXON ENTRANCE	8	54	39.0	132	0.0	62	9	19	23	138	164	X		X	BOTT		
DIXON ENTRANCE	10	54	39.0	132	0.0	62	9	20	1	140	160	X		X	BOTT		
DIXON ENTRANCE	11	54	31.0	132	0.0	62	9	20	3	250	279	X		X	BOTT		
DIXON ENTRANCE	12	54	25.0	132	0.0	62	9	20	4	275	307	X		X	BOTT		
DIXON ENTRANCE	13	54	20.0	132	0.0	62	9	20	5	199	237	X		X	BOTT		
DIXON ENTRANCE	14	54	12.0	132	0.0	62	9	20	6	80	109	X		X	BOTT		
HECATE STRAIT	15	53	57.0	131	1.0	62	9	20	11	60	76	X		X	BOTT		
HECATE STRAIT	16	53	57.0	131	20.0	62	9	20	12	20	29	X		X	BOTT		
HECATE STRAIT	17	53	39.0	131	34.0	62	9	20	14	10	18	X		X	BOTT		
HECATE STRAIT	18	53	39.0	131	20.0	62	9	20	15	20	23	X		X	BOTT		
HECATE STRAIT	19	53	39.0	130	57.0	62	9	20	17	30	42	X		X	BOTT		
HECATE STRAIT	20	53	39.0	130	44.0	62	9	20	18	120	149	X		X	BOTT		
HECATE STRAIT	21	53	39.0	130	35.0	62	9	20	18	15	23	X		X	BOTT		
CHATHAM SOUND	22	54	11.0	130	54.0	62	9	20	22	80	107	X		X	BOTT		
DIXON ENTRANCE	23	54	11.0	131	2.0	62	9	20	23	80	95	X		X	BOTT		
DIXON ENTRANCE	24	54	11.0	131	11.0	62	9	20	23	25	32	X		X	BOTT		
DIXON ENTRANCE	25	54	11.0	131	26.0	62	9	21	1	15	23	X		X	BOTT		
DIXON ENTRANCE	26	54	14.0	131	23.0	62	9	21	2	25	29	X		X	BOTT		
DIXON ENTRANCE	27	54	25.0	131	34.0	62	9	21	4	225	259	X		X	BOTT		
DIXON ENTRANCE	28	54	30.0	131	47.0	62	9	21	6	295	338	X		X	BOTT		
DIXON ENTRANCE	29	54	33.0	132	1.0	62	9	21	7	224	274	X		X	BOTT		
DIXON ENTRANCE	30	54	39.0	132	15.0	62	9	21	8	100	137	X		X	BOTT		
DIXON ENTRANCE	31	54	33.0	132	1.0	62	9	21	10	250	277	X		X	BOTT		
DIXON ENTRANCE	32	54	30.0	131	47.0	62	9	21	11	291	347	X		X	BOTT		
DIXON ENTRANCE	33	54	25.0	131	34.0	62	9	21	12	222	270	X		X	BOTT		
DIXON ENTRANCE	34	54	24.0	131	22.0	62	9	21	14	209	268	X		X	BOTT		
DIXON ENTRANCE	35	54	22.0	131	10.0	62	9	21	15	56	71	X		X	BOTT		
DIXON ENTRANCE	36	54	21.0	131	5.0	62	9	21	15	78	87	X		X	BOTT		
CHATHAM SOUND	37	54	19.0	130	54.0	62	9	21	16	60	113	X		X	BOTT		

CHATHAM SOUND	38	54	18.0	130	41.0	62	9	21	18	119	182	X	X	BOTT
CHATHAM SOUND	39	54	17.0	130	34.0	62	9	21	18	60	95	X	X	BOTT
CHATHAM SOUND	40	54	18.0	130	41.0	62	9	21	22	160	192	X	X	BOTT
CHATHAM SOUND	41	54	19.0	130	54.0	62	9	21	23	80	91	X	X	BOTT
DIXON ENTRANCE	42	54	21.0	131	5.0	62	9	22		79	87	X	X	BOTT
DIXON ENTRANCE	43	54	22.0	131	10.0	62	9	22	1	60	67	X	X	BOTT
DIXON ENTRANCE	44	54	24.0	131	22.0	62	9	22	2	199	230	X	X	BOTT
DIXON ENTRANCE	45	54	20.0	131	23.0	62	9	22	3	160	173	X	X	BOTT
DIXON ENTRANCE	46	54	18.0	131	15.0	62	9	22	3	60	65	X	X	BOTT
DIXON ENTRANCE	47	54	28.0	131	18.0	62	9	22	5	120	148	X	X	BOTT
DIXON ENTRANCE	48	54	41.0	130	53.0	62	9	22	7	249	296	X	X	BOTT
DIXON ENTRANCE	50	54	42.0	131	12.0	62	9	22	9	244	292	X	X	BOTT
DIXON ENTRANCE	51	54	42.0	131	24.0	62	9	22	11	137	164	X	X	BOTT
DIXON ENTRANCE	63	54	33.0	132	2.0	62	9	25	5	225	248	X	X	BOTT
DIXON ENTRANCE	64	54	33.0	132	1.0	62	9	25	7	225	265	X	X	BOTT
DIXON ENTRANCE	65	54	33.0	132	2.0	62	9	25	9	116	263	X	X	BOTT
DIXON ENTRANCE	66	54	33.0	132	2.0	62	9	25	11	75	263	X	X	BOTT
DIXON ENTRANCE	67	54	33.0	132	2.0	62	9	25	14	225	263	X	X	BOTT
DIXON ENTRANCE	68	54	33.0	132	2.0	62	9	25	15	225	263	X	X	BOTT
DIXON ENTRANCE	69	54	33.0	132	2.0	62	9	25	18	222	263	X	X	BOTT
DIXON ENTRANCE	70	54	33.0	132	2.0	62	9	25	20	225	263	X	X	BOTT
DIXON ENTRANCE	71	54	33.0	132	2.0	62	9	25	22	217	263	X	X	BOTT
DIXON ENTRANCE	72	54	33.0	132	2.0	62	9	26	1	224	265	X	X	BOTT
DIXON ENTRANCE	73	54	33.0	132	2.0	62	9	26	2	225	263	X	X	BOTT
DIXON ENTRANCE	74	54	33.0	132	2.0	62	9	26	4	225	263	X	X	BOTT
DIXON ENTRANCE	75	54	33.0	132	2.0	62	9	26	6	222	263	X	X	BOTT
DIXON ENTRANCE	76	54	33.0	132	2.0	62	9	26	8	225	263	X	X	BOTT
DIXON ENTRANCE	77	54	33.0	132	2.0	62	9	26	10	204	263	X	X	BOTT
DIXON ENTRANCE	78	54	33.0	132	2.0	62	9	26	12	199	263	X	X	BOTT
DIXON ENTRANCE	79	54	33.0	132	2.0	62	9	26	14	225	263	X	X	BOTT
DIXON ENTRANCE	80	54	33.0	132	2.0	62	9	26	16	225	263	X	X	BOTT
DIXON ENTRANCE	81	54	33.0	132	2.0	62	9	26	18	206	263	X	X	BOTT
DIXON ENTRANCE	82	54	33.0	132	2.0	62	9	26	20	225	263	X	X	BOTT
DIXON ENTRANCE	83	54	14.0	132	25.0	62	9	29	22	138	157	X	X	BOTT
DIXON ENTRANCE	84	54	20.0	132	25.0	62	9	29	23	197	219	X	X	BOTT
DIXON ENTRANCE	85	54	26.0	132	25.0	62	9	30	1	248	283	X	X	BOTT
DIXON ENTRANCE	86	54	31.0	132	25.0	62	9	30	2	280	351	X	X	BOTT
DIXON ENTRANCE	87	54	36.0	132	25.0	62	9	30	3	155	173	X	X	BOTT
DIXON ENTRANCE	88	54	42.0	132	25.0	62	9	30	4	80	106	X	X	BOTT
DIXON ENTRANCE	89	54	37.0	132	25.0	62	9	30	5	150	192	X	X	BOTT
DIXON ENTRANCE	90	54	31.0	132	25.0	62	9	30	6	233	343	X	X	BOTT
DIXON ENTRANCE	91	54	26.0	131	25.0	62	9	30	7	243	310	X	X	BOTT
DIXON ENTRANCE	92	54	20.0	132	25.0	62	9	30	9	200	234	X	X	BOTT
DIXON ENTRANCE	93	54	14.0	132	25.0	62	9	30	10	120	146	X	X	BOTT
DIXON ENTRANCE	97	54	31.0	132	42.0	62	9	30	14	276	369	X	X	BOTT
DIXON ENTRANCE	98	54	36.0	132	42.0	62	9	30	15	114	131	X	X	BOTT
DIXON ENTRANCE	99	54	36.0	132	42.0	62	9	30	16	94	124	X	X	BOTT
DIXON ENTRANCE	100	54	31.0	132	42.0	62	9	30	18	285	380	X	X	BOTT
DIXON ENTRANCE	101	54	26.	132	42.	62	9	30		294	347	X	X	BOTT
DIXON ENTRANCE	102	54	20.	132	42.	62	9	30		244	283	X	X	BOTT
DIXON ENTRANCE	103	54	14.	132	42.	62	9	30		160	190	X	X	BOTT
DIXON ENTRANCE	104	54	19.	132	58.	62	9	30		348	438	X	X	BOTT
DIXON ENTRANCE	105	54	18.	133	17.	62	10	1		391	444	X	X	BOTT
DIXON ENTRANCE	106	54	09.	133	35.	62	10	1		278	329	X	X	BOTT
DIXON ENTRANCE	108	54	29.	133	22.	62	10	1		249	283	X	X	BOTT
DIXON ENTRANCE	109	54	39.	133	22.	62	10	1		249	288	X	X	BOTT
DIXON ENTRANCE	110	54	42.	133	03.	62	10	1		136	168	X	X	BOTT
DIXON ENTRANCE	111	54	36.	133	03.	62	10	1		320	411	X	X	BOTT
DIXON ENTRANCE	112	54	29.	133	03.	62	10	1		58	82	X	X	BOTT
DIXON ENTRANCE	113	54	26.0	133	2.0	62	10	1	19	300	320	X	X	BOTT
DIXON ENTRANCE	114	54	26.0	133	2.0	62	10	1	21	300	320	X	X	BOTT
DIXON ENTRANCE	115	54	26.0	133	2.0	62	10	1	23	280	320	X	X	BOTT
DIXON ENTRANCE	116	54	26.0	133	2.0	62	10	2	1	298	320	X	X	BOTT
DIXON ENTRANCE	117	54	26.0	133	2.0	62	10	2	3	299	320	X	X	BOTT
DIXON ENTRANCE	118	54	26.0	133	2.0	62	10	2	5	300	320	X	X	BOTT
DIXON ENTRANCE	119	54	26.0	133	2.0	62	10	2	7	300	320	X	X	BOTT
DIXON ENTRANCE	120	54	26.0	133	2.0	62	10	2	9	299	320	X	X	BOTT
DIXON ENTRANCE	121	54	26.0	133	2.0	62	10	2	11	300	320	X	X	BOTT
DIXON ENTRANCE	122	54	26.0	133	2.0	62	10	2	13	298	325	X	X	BOTT
DIXON ENTRANCE	123	54	26.0	133	2.0	62	10	2	15	298	320	X	X	BOTT
DIXON ENTRANCE	124	54	26.0	133	2.0	62	10	2	17	300	320	X	X	BOTT
DIXON ENTRANCE	125	54	26.0	133	2.0	62	10	2	19	298	320	X	X	BOTT
DIXON ENTRANCE	126	54	26.0	133	2.0	62	10	2	21	297	320	X	X	BOTT
DIXON ENTRANCE	127	54	26.0	133	2.0	62	10	2	23	300	320	X	X	BOTT
DIXON ENTRANCE	128	54	26.0	133	2.0	62	10	3	1	297	320	X	X	BOTT
DIXON ENTRANCE	129	54	26.0	133	2.0	62	10	3	3	293	320	X	X	BOTT
DIXON ENTRANCE	130	54	26.0	133	2.0	62	10	3	5	300	320	X	X	BOTT
DIXON ENTRANCE	131	54	26.0	133	2.0	62	10	3	7	299	320	X	X	BOTT
DIXON ENTRANCE	133	54	26.0	132	2.0	62	10	3	9	299	320	X	X	BOTT
DIXON ENTRANCE	133	54	26.0	133	2.0	62	10	3	11	299	320	X	X	BOTT
DIXON ENTRANCE	134	54	26.0	133	2.0	62	10	3	13	298	320	X	X	BOTT
DIXON ENTRANCE	135	54	26.0	133	2.0	62	10	3	15	298	320	X	X	BOTT
DIXON ENTRANCE	136	54	26.0	133	2.0	62	10	3	17	300	320	X	X	BOTT

DIXON ENTRANCE	137	54	26.0	133	2.0	62	10	3	19	300	320	X		X	BOTT
DIXON ENTRANCE	138	54	26.0	133	2.0	62	10	3	21	297	320	X		X	BOTT
DIXON ENTRANCE	139	54	26.0	133	2.0	62	10	3	23	300		X		X	BOTT
DIXON ENTRANCE	140	54	10.0	132	0.0	62	10	5	3	56	76	X		X	BOTT
DIXON ENTRANCE	141	54	17.0	131	47.0	62	10	5	5	140	164	X		X	BOTT
DIXON ENTRANCE	142	54	25.0	132	25.0	62	10	5	8	257	351	X		X	BOTT
CHATHAM SOUND	143	54	22.0	130	39.0	62	10	5	22	120	159	X		X	BOTT
CHATHAM SOUND	144	54	30.0	130	35.0	62	10	5	23	100	113	X		X	BOTT
DIXON ENTRANCE	145	54	38.0	130	35.0	62	10	6		316	435	X		X	BOTT
DIXON ENTRANCE	146	54	41.0	130	53.0	62	10	6	2	383	499	X		X	BOTT
DIXON ENTRANCE	148	54	17.0	132	0.0	62	10	8	22	160	168	X		X	BOTT
DIXON ENTRANCE	149	54	17.0	132	0.0	62	10	9		173	182	X		X	BOTT
DIXON ENTRANCE	150	54	17.0	132	0.0	62	10	9	2	172	182	X		X	BOTT
DIXON ENTRANCE	151	54	17.0	132	0.0	62	10	9	4	160	179	X		X	BOTT
DIXON ENTRANCE	152	54	17.0	132	0.0	62	10	9	6	160	181	X		X	BOTT
DIXON ENTRANCE	153	54	17.0	132	0.0	62	10	9	8	180	197	X		X	BOTT
DIXON ENTRANCE	154	54	17.0	132	0.0	62	10	9	10	180	195	X		X	BOTT
DIXON ENTRANCE	155	54	17.0	132	0.0	62	10	9	12	180	197	X		X	BOTT
DIXON ENTRANCE	156	54	17.0	132	0.0	62	10	9	14	179	195	X		X	BOTT
DIXON ENTRANCE	157	54	17.0	132	0.0	62	10	9	16	180	197	X		X	BOTT
DIXON ENTRANCE	158	54	17.0	132	0.0	62	10	9	18	180	195	X		X	BOTT
DIXON ENTRANCE	159	54	17.0	132	0.0	62	10	9	20	180	197	X		X	BOTT
DIXON ENTRANCE	160	54	17.0	132	0.0	62	10	9	22	180	201	X		X	BOTT
DIXON ENTRANCE	161	54	26.0	132	25.0	62	10	10	1	260	334	X		X	BOTT
DIXON ENTRANCE	162	54	26.0	132	12.0	62	10	10	2	277	351	X		X	BOTT
DIXON ENTRANCE	163	54	25.0	132	0.0	62	10	10	3	270	303	X		X	BOTT
DIXON ENTRANCE	164	54	25.0	131	46.0	62	10	10	4	197	292	X		X	BOTT

BOTTLE/CTD DATA SET NUMBER: 62-0019
YEAR:1962 VESSEL/AGENCY: EHKOLI

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
BELIZE INLET	AL1	51	10.2	127	5.6	62	5	19	16	134	137		X	X	BOTT		
BELIZE INLET	AL2	51	10.0	126	56.3	62	5	19	18	120	128		X	X	BOTT		
BELIZE INLET	BE1	51	7.0	127	32.5	62	5	21		50	72		X	X	BOTT		
BELIZE INLET	BE2	51	7.8	127	31.3	62	5	18	19	164	183		X	X	BOTT		
BELIZE INLET	BE3	51	7.9	127	25.0	62	5	18	20	190	210		X	X	BOTT		
BELIZE INLET	BE4	51	7.9	127	17.5	62	5	18	22	270	284		X	X	BOTT		
BELIZE INLET	BE5	51	7.5	127	10.5	62	5	18	23	320	329		X	X	BOTT		
BELIZE INLET	BE6	51	6.6	127	2.5	62	5	19	1	322	327		X	X	BOTT		
BELIZE INLET	BE7	51	6.4	126	56.3	62	5	19	2	296	338		X	X	BOTT		
BELIZE INLET	ME1	51	12.3	127	24.0	62	5	19	22	85	101		X	X	BOTT		
SEYMOUR INLET	SE1	51	5.4	127	28.5	62	5	20	21	70	73		X	X	BOTT		
SEYMOUR INLET	SE2	51	3.6	127	24.0	62	5	20	22	85	95		X	X	BOTT		
BELIZE INLET	BE2.5	51	8.1	127	28.5	62	5	20	1	160	183		X	X	BOTT		
BELIZE INLET	BE4.5	51	7.7	127	14.0	62	5	19	20	363	402		X	X	BOTT		
BELIZE INLET	BE6.5	51	6.5	126	59.5	62	5	19	14	180	311		X	X	BOTT		
BELIZE INLET	ME1.5	51	11.9	127	21.0	62	5	20		150	165		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 62-0020
YEAR:1962 VESSEL/AGENCY: EHKOLI

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
DOUGLAS CHANNE	K-1	53	25.3	129	12.5	62	04	11	10	350	389	X		X	BOTT		
DOUGLAS CHANNE	K-2	53	36.8	129	12.8	62	04	11	15	192	270	X		X	BOTT		
DOUGLAS CHANNE	K-3	53	44.6	129	00.7	62	04	11	17	306	380	X		X	BOTT		
DOUGLAS CHANNE	K-4	53	49.2	128	49.3	62	04	12	09	250	364	X		X	BOTT		
DOUGLAS CHANNE	K-5	53	54.3	128	44.0	62	04	12	11	225	262	X		X	BOTT		
DOUGLAS CHANNE	K-6	53	56.4	128	41.4	62	04	12	13	198	201	X		X	BOTT		
DOUGLAS CHANNE	K-7	53	57.9	128	40.7	62	04	12	15	150	170	X		X	BOTT		
DOUGLAS CHANNE	K-8	53	59.2	128	41.2	62	04	13	14	100	100	X		X	BOTT		
DOUGLAS CHANNE	K-9	53	59.2	128	40.5	62	04	12	18	80	88	X		X	BOTT		
FISHER CHANNEL	O-1	52	10.0	128	52.0	62	04	23	09	366	567	X		X	BOTT		

FISHER CHANNEL	O-2	52	13.2	128	47.8	62	04	23	10	332	412	X		X	BOTT
FISHER CHANNEL	O-3	52	15.2	128	46.4	62	04	23	13	356	420	X		X	BOTT
FISHER CHANNEL	O-4	52	17.2	127	45.8	62	04	23	15	80	83	X		X	BOTT
FISHER CHANNEL	O-5	52	18.42	127	45.4	62	04	23	16	70	79	X		X	BOTT
FISHER CHANNEL	O-6	52	19.54	127	44.3	62	04	23	18	70	71	X		X	BOTT
FISHER CHANNEL	O-7	52	20.8	127	43.9	62	04	24	08	50	61	X		X	BOTT
FISHER CHANNEL	O-8	52	21.4	127	43.1	62	04	24	10	50	51	X		X	BOTT
FISHER CHANNEL	O-9	52	21.1	127	43.0	62	04	24	12	50	58	X		X	BOTT
PRINCE RUPERT	P-1	54	20.27	130	16.9	62	04	14	13	50	33	X		X	BOTT
PRINCE RUPERT	P-2	54	18.44	130	21.5	62	04	14	14	50	79	X		X	BOTT
PRINCE RUPERT	P-3	54	17.54	130	21.9	62	04	14	16	40	44	X		X	BOTT
PRINCE RUPERT	P-4	54	14.95	130	20.8	62	04	14	17	40	44	X		X	BOTT
PRINCE RUPERT	P-5	54	13.3	130	24.0	62	04	15	09	40	46	X		X	BOTT
PRINCE RUPERT	P-6	54	12.09	130	29.0	62	04	18	09	100	110	X		X	BOTT
PRINCE RUPERT	P-7	54	12.5	130	20.04	62	04	18	11	20	25	X		X	BOTT
PRINCE RUPERT	P-8	54	11.57	130	18.6	62	04	15	11	20	23	X		X	BOTT
PRINCE RUPERT	P-9	54	12.3	130	17.75	62	04	15	13	20	20	X		X	BOTT
DOUGLAS CHANNE	K-10	53	59.2	128	39.6	62	04	13	08	80	91	X		X	BOTT
DOUGLAS CHANNE	K-11	54	01.5	128	37.1	62	04	13	09	30	33	X		X	BOTT
DOUGLAS CHANNE	K-9A	53	59.2	128	45.4	62	04	13	13	100	100	X		X	BOTT
FISHER CHANNEL	O-10	52	21.1	127	42.2	62	04	24	13	40	49	X		X	BOTT
FISHER CHANNEL	O-11	52	21.2	127	41.8	62	04	24	14	20	30	X		X	BOTT
FISHER CHANNEL	O-12	52	12.21	127	41.8	62	04	24	16	25	28	X		X	BOTT
FISHER CHANNEL	O-13	52	20.9	127	41.8	62	04	24	16	25	25	X		X	BOTT
PRINCE RUPERT	P-10	54	13.14	130	17.6	62	04	15	14	20	20	X		X	BOTT
PRINCE RUPERT	P-11	54	13.65	130	17.9	62	04	15	15	20	18	X		X	BOTT
PRINCE RUPERT	P-12	54	13.95	130	18.1	62	04	15	16	18	18	X		X	BOTT
PRINCE RUPERT	P-13	54	14.2	130	18.4	62	04	16	08	15	17	X		X	BOTT
PRINCE RUPERT	P-14	54	14.55	130	18.4	62	04	16	09	20	21	X		X	BOTT
PRINCE RUPERT	P-15	54	14.65	130	17.35	62	04	19	10	10	10	X		X	BOTT
PRINCE RUPERT	P-16	54	14.85	130	16.9	62	04	19	12	40	47	X		X	BOTT
PRINCE RUPERT	P-17	54	14.9	130	16.4	62	04	19	13	10	11	X		X	BOTT
PRINCE RUPERT	P-18	54	15.3	130	15.9	62	04	19	15	20	22	X		X	BOTT
PRINCE RUPERT	P-19	54	15.3	130	15.2	62	04	16	13	15	17	X		X	BOTT
PRINCE RUPERT	P-20	54	15.95	130	15.2	62	04	16	14	50	65	X		X	BOTT
PRINCE RUPERT	P-21	54	15.8	130	11.5	62	04	16	15	30	36	X		X	BOTT
PRINCE RUPERT	P-22	54	15.3	130	12.05	62	04	16	16	20	22	X		X	BOTT
PRINCE RUPERT	P-23	54	15.95	130	11.5	62	04	16	17	25	27	X		X	BOTT
PRINCE RUPERT	P-24	54	16.6	130	09.4	62	04	16	18	15	15	X		X	BOTT
PRINCE RUPERT	P-25	54	16.7	130	14.7	62	04	17	08	50	51	X		X	BOTT
PRINCE RUPERT	P-26	54	17.5	130	14.8	62	04	17	09	40	45	X		X	BOTT
PRINCE RUPERT	P-27	54	19.0	130	15.4	62	04	17	13	30	40	X		X	BOTT
PRINCE RUPERT	P-28	54	11.7	130	15.9	62	04	18	12	25	28	X		X	BOTT
PRINCE RUPERT	P-29	54	10.7	130	11.25	62	04	18	13	10	10	X		X	BOTT
PRINCE RUPERT	P-30	54	08.0	130	06.8	62	04	18	14	20	21	X		X	BOTT

BOTTLE/CTD DATA SET NUMBER: 62-0025
YEAR:1962 VESSEL/AGENCY: POG,OSHAWA

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
DIXON ENTRANCE	19	54	17.0	133	24.0	62	3	15	11	340	439	X		X	BOTT		
DIXON ENTRANCE	20	54	30.0	133	26.0	62	3	15	13	253	315	X		X	BOTT		
DIXON ENTRANCE	21	54	42.0	133	29.0	62	3	15	14	200	238	X		X	BOTT		
DIXON ENTRANCE	22	54	42.0	133	07.0	62	3	15	16	160	183	X		X	BOTT		
DIXON ENTRANCE	23	54	39.0	132	43.0	62	3	15	18	79	91	X		X	BOTT		
DIXON ENTRANCE	24	54	33.0	132	49.0	62	3	15	19	300	371	X		X	BOTT		
DIXON ENTRANCE	25	54	26.0	132	56.0	62	3	15	21	250	347	X		X	BOTT		
DIXON ENTRANCE	26	54	18.0	133	03.0	62	3	15	22	341	448	X		X	BOTT		
DIXON ENTRANCE	27	54	12.0	132	30.0	62	3	16	1	79	98	X		X	BOTT		
DIXON ENTRANCE	28	54	12.0	131	58.0	62	3	16	3	78	109	X		X	BOTT		
DIXON ENTRANCE	29	54	21.0	131	58.0	62	3	16	4	185	237	X		X	BOTT		
DIXON ENTRANCE	30	54	31.0	131	59.0	62	3	16	5	247	292	X		X	BOTT		
DIXON ENTRANCE	31	54	38.0	132	0.0	62	3	16	6	131	173	X		X	BOTT		
DIXON ENTRANCE	32	54	43.0	131	40.0	62	3	16	08	300	366	X		X	BOTT		
DIXON ENTRANCE	33	54	44.0	131	11.0	62	3	16	11	225	274	X		X	BOTT		
DIXON ENTRANCE	34	54	45.0	130	53.0	62	3	16	12	140	154	X		X	BOTT		
DIXON ENTRANCE	35	54	40.0	130	53.0	62	3	16	13	160	365	X		X	BOTT		
DIXON ENTRANCE	36	54	24.0	131	22.0	62	3	16	16	220	254	X		X	BOTT		
DIXON ENTRANCE	37	54	20.0	131	18.0	62	3	16	17	138	173	X		X	BOTT		
DIXON ENTRANCE	38	54	22.0	131	10.0	62	3	16	18	60	74	X		X	BOTT		
DIXON ENTRANCE	39	54	22.0	131	6.0	62	3	16	18	79	100	X		X	BOTT		
CHATHAM SOUND	40	54	19.0	130	54.0	62	3	16	19	80	107	X		X	BOTT		
CHATHAM SOUND	41	54	18.0	130	41.0	62	3	16	20	158	201	X		X	BOTT		

CHATHAM SOUND	42	54	11.0	130	54.0	62	3	17	19	100	118	X	X BOTT
DIXON ENTRANCE	43	54	11.0	131	2.0	62	3	17	20	80	100	X	X BOTT
DIXON ENTRANCE	44	54	11.0	131	11.0	62	3	17	21	20	31	X	X BOTT
HECATE STRAIT	45	53	57.0	131	1.0	62	3	17	22	59	85	X	X BOTT
HECATE STRAIT	46	53	39.0	130	35.0	62	3	18	1	29	29	X	X BOTT
HECATE STRAIT	47	53	39.0	130	44.0	62	3	18	1	83	142	X	X BOTT
HECATE STRAIT	48	53	39.0	130	57.0	62	3	18	3	39	54	X	X BOTT
HECATE STRAIT	49	53	18.0	130	45.0	62	3	18	5	116	142	X	X BOTT
HECATE STRAIT	50	53	0.0	130	19.0	62	3	18	8	173	201	X	X BOTT
HECATE STRAIT	51	53	5.0	130	3.0	62	3	18	9	58	82	X	X BOTT
HECATE STRAIT	52	52	56.0	130	32.0	62	3	18	11	75	106	X	X BOTT
HECATE STRAIT	53	52	49.0	130	51.0	62	3	18	12	40	47	X	X BOTT
HECATE STRAIT	54	52	22.0	130	49.0	62	3	18	14	115	126	X	X BOTT
Q. C. SOUND	55	51	52.0	130	42.0	62	3	18	17	290	341	X	X BOTT
Q. C. SOUND	57	51	34.0	130	18.0	62	3	18	22	773	877	X	X BOTT
Q. C. SOUND	61	51	1.0	129	16.0	62	3	19	8	140	164	X	X BOTT
Q. C. SOUND	62	51	12.0	129	20.0	62	3	19	9	250	283	X	X BOTT
Q. C. SOUND	63	51	22.0	129	22.0	62	3	19	10	130	164	X	X BOTT
Q. C. SOUND	64	51	33.0	129	26.0	62	3	19	12	60	69	X	X BOTT
Q. C. SOUND	65	51	51.0	129	31.0	62	3	19	13	180	219	X	X BOTT
Q. C. SOUND	66	51	50.0	129	8.0	62	3	19	15	79	106	X	X BOTT
Q. C. SOUND	67	51	50.0	128	49.0	62	3	19	16	40	64	X	X BOTT
Q. C. SOUND	68	51	50.0	128	29.0	62	3	19	17	80	109	X	X BOTT
Q. C. SOUND	69	51	45.0	128	34.0	62	3	19	18	120	146	X	X BOTT
Q. C. SOUND	70	51	38.0	128	42.0	62	3	20	18	20	36	X	X BOTT
Q. C. SOUND	71	51	33.0	128	49.0	62	3	20	19	30	40	X	X BOTT
Q. C. SOUND	72	51	22.0	128	43.0	62	3	20	20	175	213	X	X BOTT
Q. C. SOUND	73	51	7.0	128	33.0	62	3	20	21	109	142	X	X BOTT
Q. C. SOUND	74	50	54.0	128	27.0	62	3	20	23	30	47	X	X BOTT
DIXON ENTRANCE	116	54	17.0	133	24.0	62	03	30	01	400	448	X	X BOTT
DIXON ENTRANCE	117	54	30.0	133	26.0	62	03	30	03	275	296	X	X BOTT
DIXON ENTRANCE	118	54	42.0	133	29.0	62	03	30	04	200	234	X	X BOTT
DIXON ENTRANCE	119	54	42.0	133	07.0	62	03	30	06	140	174	X	X BOTT
DIXON ENTRANCE	120	54	39.0	132	43.0	62	3	30	7	79	96	X	X BOTT
DIXON ENTRANCE	121	54	33.0	132	49.0	62	3	30	8	350	374	X	X BOTT
DIXON ENTRANCE	122	54	26.0	132	56.0	62	03	30	10	270	329	X	X BOTT
DIXON ENTRANCE	123	54	18.0	133	03.0	62	03	30	11	400	448	X	X BOTT
DIXON ENTRANCE	124	54	12.0	132	30.0	62	3	30	13	80	98	X	X BOTT
DIXON ENTRANCE	125	54	12.0	131	58.0	62	3	30	15	78	93	X	X BOTT
DIXON ENTRANCE	126	54	21.0	131	58.0	62	3	30	16	219	250	X	X BOTT
DIXON ENTRANCE	127	54	31.0	131	59.0	62	3	30	18	275	298	X	X BOTT
DIXON ENTRANCE	128	54	38.0	132	0.0	62	3	30	19	140	164	X	X BOTT
DIXON ENTRANCE	129	54	43.0	131	40.0	62	03	30	20	400	411	X	X BOTT
DIXON ENTRANCE	130	54	44.0	131	11.0	62	03	30	22	219	265	X	X BOTT
CHATHAM SOUND	131	54	18.0	130	41.0	62	3	31	22	159	182	X	X BOTT
DIXON ENTRANCE	132	54	22.0	131	5.0	62	3	31	23	80	100	X	X BOTT
DIXON ENTRANCE	133	54	22.0	131	10.0	62	4	1		60	64	X	X BOTT
DIXON ENTRANCE	134	54	24.0	131	22.0	62	4	1	1	220	256	X	X BOTT
DIXON ENTRANCE	135	54	20.0	131	18.0	62	4	1	2	116	128	X	X BOTT
DIXON ENTRANCE	136	54	11.0	131	11.0	62	4	1	3	20	32	X	X BOTT
HECATE STRAIT	137	53	57.0	131	1.0	62	4	1	4	59	82	X	X BOTT
HECATE STRAIT	138	53	39.0	130	35.0	62	4	1	7	30	36	X	X BOTT
HECATE STRAIT	139	53	39.0	130	44.0	62	4	1	7	119	131	X	X BOTT
HECATE STRAIT	140	53	39.0	130	57.0	62	4	1	8	39	49	X	X BOTT
HECATE STRAIT	141	53	18.0	130	45.0	62	4	1	10	132	155	X	X BOTT
HECATE STRAIT	142	53	0.0	130	18.0	62	4	1	13	176	201	X	X BOTT
HECATE STRAIT	143	52	56.0	130	32.0	62	4	1	14	96	109	X	X BOTT
HECATE STRAIT	144	52	50.0	130	47.0	62	4	1	15	60	71	X	X BOTT
HECATE STRAIT	145	52	22.0	130	49.0	62	4	1	18	117	128	X	X BOTT
Q. C. SOUND	146	51	51.0	130	42.0	62	4	2	4	340	384	X	X BOTT
Q. C. SOUND	147	51	34.0	130	18.0	62	4	2	6	798	859	X	X BOTT
Q. C. SOUND	149	50	53.0	129	13.0	62	4	2	13	60	82	X	X BOTT
Q. C. SOUND	150	51	0.0	129	16.0	62	4	2	14	139	155	X	X BOTT
Q. C. SOUND	151	51	12.0	129	20.0	62	4	2	15	275	292	X	X BOTT
Q. C. SOUND	152	51	22.0	129	22.0	62	4	2	17	117	126	X	X BOTT
Q. C. SOUND	153	51	33.0	129	26.0	62	4	2	18	40	60	X	X BOTT
Q. C. SOUND	154	51	51.0	129	31.0	62	4	2	20	195	237	X	X BOTT
Q. C. SOUND	155	51	50.0	129	8.0	62	4	2	21	100	109	X	X BOTT
Q. C. SOUND	156	51	50.0	128	49.0	62	4	2	22	60	71	X	X BOTT
Q. C. SOUND	157	51	50.0	128	29.0	62	4	2	23	100	109	X	X BOTT
Q. C. SOUND	158	51	45.0	128	34.0	62	4	3		119	146	X	X BOTT
Q. C. SOUND	159	51	38.0	128	42.0	62	4	3	1	20	32	X	X BOTT
Q. C. SOUND	160	51	33.0	128	49.0	62	4	3	1	30	38	X	X BOTT
Q. C. SOUND	161	51	22.0	128	43.0	62	4	3	3	195	210	X	X BOTT
Q. C. SOUND	162	51	7.0	128	33.0	62	4	3	4	110	144	X	X BOTT
Q. C. SOUND	163	50	54.0	128	27.0	62	4	3	6	40	54	X	X BOTT

BOTTLE/CTD DATA SET NUMBER: 62-0026
YEAR:1962 VESSEL/AGENCY: UBC

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT NO HR
Q.C. STRAIT	5	50	53.5	127	57.2	62	7	2	20	50	84		X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 63-0011A
YEAR:1963 VESSEL/AGENCY: WHITETHROAT,UBC

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT NO HR
BURKE CH.	31	51	54.2	127	56.7	63	5	16	12	300	358		X	X	BOTT	
BURKE CH.	32	52	3.7	127	39.2	63	5	16	14	300	338		X	X	BOTT	
BURKE CH.	33	52	8.0	127	35.1	63	5	16	15	400	432		X	X	BOTT	
BURKE CH.	34	52	11.9	127	29.0	63	5	16	17	549	584		X	X	BOTT	
BURKE CH.	35	52	14.3	127	23.0	63	5	16	18	549	584		X	X	BOTT	
BURKE CH.	36	52	19.8	127	11.0	63	5	16	20	500	558		X	X	BOTT	
BURKE CH.	37	52	19.3	127	3.0	63	5	16	21	450	508		X	X	BOTT	
BURKE CH.	38	52	22.8	126	50.0	63	5	17	14	250	302		X	X	BOTT	
BURKE CH.	39	52	20.8	126	57.1	63	5	17	15	350	439		X	X	BOTT	
BURKE CH.	40	52	24.2	127	13.1	63	5	17	17	400	476		X	X	BOTT	
BURKE CH.	41	52	29.5	127	14.9	63	5	17	19	449	496		X	X	BOTT	
BURKE CH.	42	52	34.7	127	9.3	63	5	17	21	396	450		X	X	BOTT	
BURKE CH.	43	52	44.0	126	57.2	63	5	17	23	400	454		X	X	BOTT	
BURKE CH.	44	52	52.1	127	3.8	63	5	18	1	100	121		X	X	BOTT	
BURKE CH.	45	52	50.0	126	59.6	63	5	18	12	150	176		X	X	BOTT	
BURKE CH.	46	52	38.3	127	0.5	63	5	18	14	450	483		X	X	BOTT	
BURKE CH.	47	52	24.6	127	20.8	63	5	18	17	450	512		X	X	BOTT	
BURKE CH.	48	52	27.1	127	28.0	63	5	18	18	250	315		X	X	BOTT	
BURKE CH.	49	52	21.6	127	27.5	63	5	18	20	398	465		X	X	BOTT	
BURKE CH.	50	52	16.8	127	39.4	63	5	18	22	296	355		X	X	BOTT	
BURKE CH.	51	52	15.1	127	46.6	63	5	18	22	393	439		X	X	BOTT	
BURKE CH.	52	52	20.0	127	55.9	63	5	19	15	190	225		X	X	BOTT	
BURKE CH.	53	52	27.8	127	53.9	63	5	19	17	150	170		X	X	BOTT	
BURKE CH.	54	52	28.0	127	44.8	63	5	19	18	95	110		X	X	BOTT	
BURKE CH.	55	52	29.7	127	51.3	63	5	19	20	145	161		X	X	BOTT	
BURKE CH.	56	52	22.5	127	52.5	63	5	19	22	150	174		X	X	BOTT	
BURKE CH.	57	52	9.9	127	51.8	63	5	20		499	366		X	X	BOTT	
BURKE CH.	58	52	2.8	127	55.0	63	5	20	1	300	366		X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 63-0011B
YEAR:1963 VESSEL/AGENCY: WHITETHRCAT

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT NO HR
DEAN CHANNEL	12	52	19.6	127	29.4	63	6	7	17	250	402		X	X	BOTT	
DEAN CHANNEL	13	52	29.4	127	15.0	63	6	7	20	400	497		X	X	BOTT	
BURKE CHANNEL	14	52	14.0	127	23.0	63	6	7	23	500	584		X	X	BOTT	
FITZ HUGH SD.	15	51	47.7	127	56.2	63	6	8	18	150	366		X	X	BOTT	
MOSES INLET	16	51	44.0	127	27.0	63	6	9	1	175	198		X	X	BOTT	
RIVERS INLET	17	51	30.1	127	34.5	63	6	9	4	300	338		X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 63-0011C
YEAR:1963 VESSEL/AGENCY: WHITETHROAT,UBC

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
PORTLAND INLET	1	54	41.5	130	27.3	63	6	27	15	497	567		X	X	BOTT		
KHUTZEYMATEEN	3	54	45.2	130	12.2	63	6	27	18	52	59		X	X	BOTT		
KHUTZEYMATEEN	4	54	42.6	130	9.0	63	6	27	19	100	119		X	X	BOTT		
KHUTZEYMATEEN	5	54	38.8	130	3.2	63	6	27	21	150	165		X	X	BOTT		
KHUTZEYMATEEN	6	54	36.3	129	57.8	63	6	27	22	50	77		X	X	BOTT		
HECATE STRAIT	7	53	57.0	130	26.5	63	6	28	14	152	183		X	X	BOTT		
DOUGLAS CH.	8	53	33.4	128	59.2	63	6	29	3	200	256		X	X	BOTT		
DOUGLAS CH.	9	53	30.4	128	42.5	63	6	29	11	150	201		X	X	BOTT		
DOUGLAS CH.	10	53	26.2	128	34.1	63	6	29	12	195	198		X	X	BOTT		
DOUGLAS CH.	11	53	29.0	128	20.5	63	6	29	14	400	476		X	X	BOTT		
DOUGLAS CH.	12	53	19.8	127	56.6	63	6	29	16	255	256		X	X	BOTT		
DOUGLAS CH.	13	53	27.6	128	14.4	63	6	29	19	400	439		X	X	BOTT		
DOUGLAS CH.	14	53	54.5	128	43.8	63	6	30	12	200	247		X	X	BOTT		
DOUGLAS CH.	15	53	47.5	128	53.0	63	6	30	13	350	382		X	X	BOTT		
DOUGLAS CH.	16	53	40.4	129	7.5	63	6	30	15	350	399		X	X	BOTT		
DOUGLAS CH.	17	53	31.5	129	12.2	63	6	30	16	295	448		X	X	BOTT		
DOUGLAS CH.	18	53	22.3	129	11.8	63	6	30	18	396	448		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 63-0018
YEAR:1963 VESSEL/AGENCY: VELELLA,FOC

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
BURKE CHANNEL	1	51	52.7	127	40.1	63	06	2	19	100			X	X	BOTT		
BURKE CHANNEL	1	51	55.0	127	53.8	63	05	19	19	150			X	X	BOTT		
BURKE CHANNEL	1	51	55.2	127	53.8	63	05	16	22	150			X	X	BOTT		
BURKE CHANNEL	1	51	56.7	127	57.4	63	05	29	16	100			X	X	BOTT		
BURKE CHANNEL	1	52	22.9	126	49.1	63	04	18	18	100			X	X	BOTT		
BURKE CHANNEL	2	51	47.4	128	01.8	63	05	15	15	100			X	X	BOTT		
BURKE CHANNEL	2	51	47.4	128	01.8	63	05	19	1	100			X	X	BOTT		
BURKE CHANNEL	2	51	47.4	128	01.8	63	05	24	17	100			X	X	BOTT		
BURKE CHANNEL	2	51	47.4	128	01.8	63	05	28	15	100			X	X	BOTT		
BURKE CHANNEL	2	51	52.5	127	43.8	63	06	2	23	100			X	X	BOTT		
BURKE CHANNEL	2	51	53.6	127	55.3	63	05	16	22	150			X	X	BOTT		
BURKE CHANNEL	2	51	54.8	127	53.2	63	05	19	19	150			X	X	BOTT		
BURKE CHANNEL	2	51	56.6	127	55.8	63	05	29	17	100			X	X	BOTT		
BURKE CHANNEL	3	51	47.7	128	02.4	63	05	15	16	100			X	X	BOTT		
BURKE CHANNEL	3	51	47.7	128	02.4	63	05	19	1	100			X	X	BOTT		
BURKE CHANNEL	3	51	47.7	128	02.4	63	05	24	18	100			X	X	BOTT		
BURKE CHANNEL	3	51	47.7	128	02.4	63	05	28	14	100			X	X	BOTT		
BURKE CHANNEL	3	51	54.3	127	52.5	63	05	16	23	150			X	X	BOTT		
BURKE CHANNEL	3	51	54.3	127	52.5	63	05	19	20	150			X	X	BOTT		
BURKE CHANNEL	3	51	54.8	127	53.7	63	06	3	1	100			X	X	BOTT		
BURKE CHANNEL	3	51	56.5	127	54.6	63	05	29	17	100			X	X	BOTT		
BURKE CHANNEL	4	51	48.1	128	02.9	63	05	15	16	100			X	X	BOTT		
BURKE CHANNEL	4	51	48.1	128	02.9	63	05	19	2	100			X	X	BOTT		
BURKE CHANNEL	4	51	48.1	128	02.9	63	05	24	19	100			X	X	BOTT		
BURKE CHANNEL	4	51	48.1	128	02.9	63	05	28	13	100			X	X	BOTT		
BURKE CHANNEL	4	51	54.8	127	53.2	63	05	29	19	100			X	X	BOTT		
BURKE CHANNEL	5	52	22.0	126	53.2	63	04	22	00	100			X	X	BOTT		
BURKE CHANNEL	8	52	22.1	126	52.8	63	04	25	18	100			X	X	BOTT		
BURKE CHANNEL	15	52	18.6	126	58.0	63	05	2	14	25			X	X	BOTT		
BURKE CHANNEL	16	52	18.3	126	58.7	63	05	2	15	25			X	X	BOTT		
BURKE CHANNEL	17	52	17.8	126	59.4	63	05	2	16	25			X	X	BOTT		
BURKE CHANNEL	19	52	18.0	126	57.5	63	05	4	15	25			X	X	BOTT		
BURKE CHANNEL	20	52	17.8	126	58.4	63	05	4	16	25			X	X	BOTT		
BURKE CHANNEL	21	52	17.4	126	59.0	63	05	4	16	25			X	X	BOTT		
BURKE CHANNEL	22	52	18.6	127	02.8	63	05	4	17	25			X	X	BOTT		
BURKE CHANNEL	23	52	19.3	127	03.2	63	05	4	18	25			X	X	BOTT		
BURKE CHANNEL	24	52	19.9	127	03.1	63	05	4	18	25			X	X	BOTT		
BURKE CHANNEL	26	52	19.7	127	08.5	63	05	7	17	60			X	X	BOTT		
BURKE CHANNEL	27	52	23.1	127	13.7	63	05	7	21	60			X	X	BOTT		

BURKE CHANNEL	29	52 23.2	127 13.1	63 05 10 19	25			X	X	BOTT		
BURKE CHANNEL	30	52 23.4	127 13.8	63 05 10 20	25			X	X	BOTT		
BURKE CHANNEL	31	52 23.8	127 14.4	63 05 10 21	25			X	X	BOTT		
BURKE CHANNEL	40	51 54.8	127 57.4	63 05 16 19	125			X	X	BOTT		
BURKE CHANNEL	41	51 55.4	127 53.5	63 05 16 21	125			X	X	BOTT		
BURKE CHANNEL	42	51 55.0	127 52.6	63 05 16 21	125			X	X	BOTT		
BURKE CHANNEL	43	51 54.3	127 52.3	63 05 16 22	125			X	X	BOTT		
BURKE CHANNEL	55	51 47.2	127 53.5	63 05 21 20	160			X	X	BOTT		
BURKE CHANNEL	56	51 47.3	127 56.3	63 05 21 21	160			X	X	BOTT		
BURKE CHANNEL	57	51 47.2	127 58.9	63 05 21 22	160			X	X	BOTT		
BURKE CHANNEL	58	51 47.3	127 59.1	63 05 21 15	160			X	X	BOTT		
BURKE CHANNEL	59	51 47.2	127 55.9	63 05 22 16	160			X	X	BOTT		
BURKE CHANNEL	60	51 47.3	127 53.7	63 05 22 18	160			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 64-0010
YEAR:1964 VESSEL/AGENCY: ACONA

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
Q. C. SOUND	11	51 57.0	129 36.0	64 9 27 7	145	183		X	X	BOTT		
WHALE CHANNEL	12	53 16.7	129 7.3	64 9 28	440	503		X	X	BOTT		
CHATHAM SOUND	13	54 31.0	130 33.0	64 9 28 14	105			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 64-0011
YEAR:1964 VESSEL/AGENCY: WHITETHROAT,UBC

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
DIXON ENTRANCE		55 06.4	130 52.6	64 06 05	300	320	X		X	BOTT		
DIXON ENTRANCE		55 06.5	130 43.5	64 06 05	300	366	X		X	BOTT		
DIXON ENTRANCE		55 14.1	130 34.0	64 06 05	150	220	X		X	BOTT		
DIXON ENTRANCE		55 18.5	130 30.5	64 06 05	135	140	X		X	BOTT		
DIXON ENTRANCE		55 26.9	130 57.0	64 06 05	296	348	X		X	BOTT		
DIXON ENTRANCE		55 38.8	130 55.5	64 06 05	490	530	X		X	BOTT		
DIXON ENTRANCE	BEH16	54 49.4	131 07.5	64 06 05 05	200	229	X		X	BOTT		
DIXON ENTRANCE	BEH18	54 43.0	131 12.5	64 06 15 06	250	256	X		X	BOTT		
DIXON ENTRANCE	CLA22	54 43.3	131 48.3	64 06 15 03	300	366	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 64-0012
YEAR:1964 VESSEL/AGENCY: EHKOLI,POG

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
DOUGLAS CHANNE	K-1	53 25.4	129 12.5	64 10 19 15	300	402		X	X	BOTT		
DOUGLAS CHANNE	K-2	53 35.8	129 12.6	64 10 19 13	250	293		X	X	BOTT		
DOUGLAS CHANNE	K-3	53 44.6	129 00.6	64 10 19 10	194	357		X	X	BOTT		
DOUGLAS CHANNE	K-4	53 50.6	128 47.4	64 10 19 08	216	357		X	X	BOTT		
DOUGLAS CHANNE	K-5	53 54.4	128 44.0	64 10 16 17	200	229		X	X	BOTT		
DOUGLAS CHANNE	K-6	53 56.4	128 41.4	64 10 16 15	200	206		X	X	BOTT		
DOUGLAS CHANNE	K-7	53 58.0	128 40.6	64 10 16 13	150	176		X	X	BOTT		
DOUGLAS CHANNE	K-8	53 59.3	128 41.3	64 10 16 10	80	91		X	X	BOTT		
DOUGLAS CHANNE	K-9	53 59.3	128 40.5	64 10 16 09	70	84		X	X	BOTT		
FISHER CHANNEL	0-1	52 10.0	127 52.0	64 10 27 08	358	581		X	X	BOTT		
FISHER CHANNEL	0-2	52 13.2	127 48.8	64 10 27 10	315	439		X	X	BOTT		
FISHER CHANNEL	0-3	52 15.4	127 46.3	64 10 27 14	260	439		X	X	BOTT		
FISHER CHANNEL	0-4	52 17.3	127 45.8	64 10 27 13	70	73		X	X	BOTT		

FISHER CHANNEL	O-5	52	18.7	127	45.3	64	10	27	14	50	69		X	X	BOTT
FISHER CHANNEL	O-6	52	19.8	127	44.4	64	10	27	16	40	66		X	X	BOTT
FISHER CHANNEL	O-7	52	20.8	127	44.0	64	10	28	08	50	55		X	X	BOTT
FISHER CHANNEL	O-8	52	21.4	127	43.1	64	10	28	09	40	61		X	X	BOTT
FISHER CHANNEL	O-9	52	21.1	127	42.9	64	10	28	10	50	58		X	X	BOTT
PRINCE RUPERT	P-1	54	20.5	130	17.0	64	10	20	10	40	49		X	X	BOTT
PRINCE RUPERT	P-2	54	18.6	130	21.5	64	10	20	12	50	70		X	X	BOTT
PRINCE RUPERT	P-3	54	16.9	130	21.8	64	10	20	13	40	44		X	X	BOTT
PRINCE RUPERT	P-4	54	14.0	130	20.8	64	10	20	14	40	49		X	X	BOTT
PRINCE RUPERT	P-5	54	13.4	130	24.0	64	10	21	11	40	45		X	X	BOTT
PRINCE RUPERT	P-6	54	12.8	130	28.9	64	10	21	12	70	70		X	X	BOTT
PRINCE RUPERT	P-7	54	12.4	130	20.3	64	10	21	14	40	44		X	X	BOTT
PRINCE RUPERT	P-8	54	12.0	130	18.45	64	10	22	07	15	18		X	X	BOTT
PRINCE RUPERT	P-9	54	12.6	130	17.7	64	10	21	16	20	27		X	X	BOTT
DOUGLAS CHANNE	K-10	53	59.2	128	39.5	64	10	16	07	70	84		X	X	BOTT
DOUGLAS CHANNE	K-11	54	01.45	128	37.2	64	10	17	14	30	34		X	X	BOTT
FISHER CHANNEL	O-10	52	21.1	127	42.3	64	10	28	12	40	44		X	X	BOTT
FISHER CHANNEL	O-11	52	21.14	127	41.65	64	10	28	14	20	25		X	X	BOTT
FISHER CHANNEL	O-12	52	21.0	127	41.63	64	10	28	15	20	22		X	X	BOTT
FISHER CHANNEL	O-13	52	20.85	127	41.62	64	10	28	16	20	22		X	X	BOTT
PRINCE RUPERT	P-10	54	13.15	130	17.6	64	10	21	17	15	18		X	X	BOTT
PRINCE RUPERT	P-11	54	13.65	130	17.85	64	10	22	14	20	20		X	X	BOTT
PRINCE RUPERT	P-12	54	13.95	130	18.1	64	10	27	16	20	20		X	X	BOTT
PRINCE RUPERT	P-13	54	14.2	130	18.35	64	10	22	17	16	16		X	X	BOTT
PRINCE RUPERT	P-14	54	14.6	130	18.35	64	10	22	18	20	20		X	X	BOTT
PRINCE RUPERT	P-15	54	14.65	130	17.35	64	10	23	10	20	24		X	X	BOTT
PRINCE RUPERT	P-16	54	14.82	130	16.9	64	10	23	11	20	26		X	X	BOTT
PRINCE RUPERT	P-17	54	14.9	130	16.4	64	10	23	13	20	20		X	X	BOTT
PRINCE RUPERT	P-18	54	15.3	130	15.9	64	10	23	14	20	26		X	X	BOTT
PRINCE RUPERT	P-27	54	19.0	130	15.44	64	10	24	08	30	36		X	X	BOTT
PRINCE RUPERT	P-28	54	11.8	130	16.0	64	10	22	09	8	9		X	X	BOTT
PRINCE RUPERT	P-29	54	10.7	130	11.2	64	10	22	09	6	6		X	X	BOTT
PRINCE RUPERT	P-30	54	08.0	130	06.8	64	10	22	11	8	9		X	X	BOTT
PRINCE RUPERT	P-12A	54	13.95	130	18.05	64	10	24	11	15	18		X	X	BOTT

BOTTLE/CTD DATA SET NUMBER: 64-0018
YEAR:1964 VESSEL/AGENCY: VELELLA

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO	DEPTH	MEAS				HR	
										(M)	(M)	C	S	T			
BURKE CHANNEL	1	51	47.2	128	04.0	64	06	2	20								
BURKE CHANNEL	1	51	47.2	128	04.0	64	06	4	23								
BURKE CHANNEL	1	51	47.2	128	04.0	64	06	9	18								
BURKE CHANNEL	1	51	54.4	127	52.2	64	06	1	14	30		X		X	CTD		
BURKE CHANNEL	1	51	56.4	127	48.2	64	05	20	16	30		X		X	CTD		
BURKE CHANNEL	1	51	56.8	127	47.6	64	05	19	17	125			X	X	BOTT		
BURKE CHANNEL	1	51	56.8	127	47.6	64	05	23	15	100			X	X	BOTT		
BURKE CHANNEL	1	51	57.5	127	54.9	64	05	22	15	100			X	X	BOTT		
BURKE CHANNEL	1	51	57.7	127	54.8	64	05	24	15	200			X	X	BOTT		
BURKE CHANNEL	1	52	06.4	127	36.7	64	05	26	19	150			X	X	BOTT		
BURKE CHANNEL	1	52	17.6	127	12.3	64	05	14	15	25		X		X	CTD		
BURKE CHANNEL	1	52	18.7	127	06.6	64	05	13	16	25		X		X	CTD		
BURKE CHANNEL	1	52	18.9	127	10.7	64	05	2	15	25		X		X	CTD		
BURKE CHANNEL	1	52	21.8	126	52.9	64	04	14	17	150			X	X	BOTT		
BURKE CHANNEL	1	52	21.8	126	52.9	64	04	15	16	150			X	X	BOTT		
BURKE CHANNEL	1	52	21.9	126	51.6	64	04	28	18	25		X		X	CTD		
BURKE CHANNEL	1	52	22.7	126	48.3	64	05	5	17	30		X		X	CTD		
BURKE CHANNEL	1	52	25.1	127	13.6	64	05	12	16	25		X		X	CTD		
BURKE CHANNEL	2	51	47.2	127	59.7	64	06	6	16	160			X	X	BOTT		
BURKE CHANNEL	2	51	47.4	128	01.8	64	06	2	15	100			X	X	BOTT		
BURKE CHANNEL	2	51	47.4	128	01.8	64	06	2	22	100			X	X	BOTT		
BURKE CHANNEL	2	51	47.4	128	01.8	64	06	4	21	100			X	X	BOTT		
BURKE CHANNEL	2	51	47.4	128	01.8	64	06	9	19	100			X	X	BOTT		
BURKE CHANNEL	2	51	54.9	127	52.7	64	06	1	15	30		X		X	CTD		
BURKE CHANNEL	2	51	56.6	127	48.0	64	05	23	16	100			X	X	BOTT		
BURKE CHANNEL	2	51	56.7	127	48.4	64	05	20	16	30		X		X	CTD		
BURKE CHANNEL	2	51	57.1	127	46.2	64	05	19	18	125			X	X	BOTT		
BURKE CHANNEL	2	51	57.4	127	54.5	64	05	22	16	100			X	X	BOTT		
BURKE CHANNEL	2	51	57.5	127	54.5	64	05	24	16	200			X	X	BOTT		
BURKE CHANNEL	2	52	06.4	127	36.8	64	05	26	19	150			X	X	BOTT		
BURKE CHANNEL	2	52	17.9	127	13.2	64	05	14	16	25		X		X	CTD		
BURKE CHANNEL	2	52	19.1	127	11.5	64	05	2	16	25		X		X	CTD		
BURKE CHANNEL	2	52	19.4	127	06.5	64	05	13	16	25		X		X	CTD		
BURKE CHANNEL	2	52	22.1	126	52.9	64	04	28	18	25		X		X	CTD		

BURKE CHANNEL	2	52	22.1	126	53.1	64	04	15	17	150		X	X	BOTT
BURKE CHANNEL	2	52	23.0	126	49.0	64	05	5	18	30	X		X	CTD
BURKE CHANNEL	2	52	25.1	127	12.5	64	05	12	17	25	X		X	CTD
BURKE CHANNEL	3	51	47.4	127	56.9	64	06	6	17	160		X	X	BOTT
BURKE CHANNEL	3	51	47.7	128	02.4	64	06	2	16	100		X	X	BOTT
BURKE CHANNEL	3	51	47.7	128	02.4	64	06	2	23	100		X	X	BOTT
BURKE CHANNEL	3	51	47.7	128	02.4	64	06	4	21	100		X	X	BOTT
BURKE CHANNEL	3	51	47.7	128	02.4	64	06	9	19	100		X	X	BOTT
BURKE CHANNEL	3	51	55.5	127	53.1	64	06	1	15	30	X		X	CTD
BURKE CHANNEL	3	51	57.2	127	48.8	64	05	20	16	30	X		X	CTD
BURKE CHANNEL	3	51	57.4	127	45.8	64	05	23	16	100		X	X	BOTT
BURKE CHANNEL	3	51	57.5	127	44.0	64	05	19	18	125		X	X	BOTT
BURKE CHANNEL	3	51	57.6	127	55.8	64	05	22	16	100		X	X	BOTT
BURKE CHANNEL	3	51	57.6	127	55.8	64	05	24	16	200		X	X	BOTT
BURKE CHANNEL	3	52	06.4	127	37.9	64	05	26	20	150		X	X	BOTT
BURKE CHANNEL	3	52	18.2	127	14.2	64	05	14	16	25	X		X	CTD
BURKE CHANNEL	3	52	19.4	127	12.5	64	05	2	16	25	X		X	CTD
BURKE CHANNEL	3	52	19.9	127	06.3	64	05	13	17	25	X		X	CTD
BURKE CHANNEL	3	52	22.4	126	53.5	64	04	15	18	150		X	X	BOTT
BURKE CHANNEL	3	52	22.4	126	53.5	64	04	28	18	25	X		X	CTD
BURKE CHANNEL	3	52	23.4	126	49.6	64	05	5	18	30	X		X	CTD
BURKE CHANNEL	3	52	25.1	127	11.3	64	05	12	17	25	X		X	CTD
BURKE CHANNEL	4	51	47.9	127	54.0	64	06	6	18	160		X	X	BOTT
BURKE CHANNEL	4	51	48.1	128	02.9	64	06	2	16	100		X	X	BOTT
BURKE CHANNEL	4	51	48.1	128	02.9	64	06	2	22	100		X	X	BOTT
BURKE CHANNEL	4	51	48.1	128	02.9	64	06	4	22	100		X	X	BOTT
BURKE CHANNEL	4	51	48.1	128	02.9	64	06	9	20	100		X	X	BOTT
BURKE CHANNEL	4	51	51.8	127	58.9	64	06	1	17	30	X		X	CTD
BURKE CHANNEL	4	51	57.4	127	42.5	64	05	19	19	125		X	X	BOTT
BURKE CHANNEL	4	51	57.4	127	46.8	64	05	20	18	30	X		X	CTD
BURKE CHANNEL	4	51	57.5	127	42.5	64	05	23	17	100		X	X	BOTT
BURKE CHANNEL	4	51	57.8	127	57.1	64	05	24	17	200		X	X	BOTT
BURKE CHANNEL	4	51	58.8	127	57.1	64	05	22	18	100		X	X	BOTT
BURKE CHANNEL	4	52	06.4	127	39.6	64	05	26	21	150		X	X	BOTT
BURKE CHANNEL	4	52	13.6	127	22.3	64	05	14	19	25	X		X	CTD
BURKE CHANNEL	4	52	20.5	127	09.7	64	05	13	17	25	X		X	CTD
BURKE CHANNEL	4	52	21.0	126	55.8	64	05	5	22	30	X		X	CTD
BURKE CHANNEL	4	52	21.6	127	10.4	64	05	2	18	25	X		X	CTD
BURKE CHANNEL	4	52	23.1	127	13.0	64	05	12	21	25	X		X	CTD
BURKE CHANNEL	5	51	48.5	128	00.4	64	06	2	18					
BURKE CHANNEL	5	51	48.5	128	00.4	64	06	4	20					
BURKE CHANNEL	5	51	48.5	128	00.4	64	06	9	21					
BURKE CHANNEL	5	51	51.8	128	00.6	64	06	1	18	30	X		X	CTD
BURKE CHANNEL	5	51	57.3	127	46.0	64	05	20	18	30	X		X	CTD
BURKE CHANNEL	5	51	57.5	127	57.2	64	05	22	19	100		X	X	BOTT
BURKE CHANNEL	5	52	01.7	127	41.2	64	05	26	22	150		X	X	BOTT
BURKE CHANNEL	5	52	14.2	127	22.5	64	05	14	20	25	X		X	CTD
BURKE CHANNEL	5	52	19.4	127	11.6	64	05	2	19	25	X		X	CTD
BURKE CHANNEL	5	52	19.7	127	09.7	64	05	13	18	25	X		X	CTD
BURKE CHANNEL	5	52	21.4	126	56.1	64	05	5	22	30	X		X	CTD
BURKE CHANNEL	5	52	22.9	127	13.7	64	05	12	21	25	X		X	CTD
BURKE CHANNEL	6	51	48.8	127	59.8	64	06	1	18	30	X		X	CTD
BURKE CHANNEL	6	51	49.3	127	57.7	64	06	9	21					
BURKE CHANNEL	6	51	57.1	127	45.3	64	05	20	18	30	X		X	CTD
BURKE CHANNEL	6	51	57.4	127	55.9	64	05	22	20	100		X	X	BOTT
BURKE CHANNEL	6	52	01.7	127	40.1	64	05	26	23	150		X	X	BOTT
BURKE CHANNEL	6	52	14.8	127	22.6	64	05	14	20	25	X		X	CTD
BURKE CHANNEL	6	52	18.9	127	09.7	64	05	13	18	25	X		X	CTD
BURKE CHANNEL	6	52	21.4	127	11.0	64	05	2	19	25	X		X	CTD
BURKE CHANNEL	6	52	21.8	126	56.4	64	05	5	23	30	X		X	CTD
BURKE CHANNEL	6	52	22.1	126	53.2	64	04	26	17	100		X	X	BOTT
BURKE CHANNEL	6	52	22.6	127	14.5	64	05	12	21	25	X		X	CTD
BURKE CHANNEL	7	51	47.9	127	54.0	64	06	6	22	160		X	X	BOTT
BURKE CHANNEL	7	51	57.3	127	54.7	64	05	22	20	100		X	X	BOTT
BURKE CHANNEL	7	51	58.5	128	00.7	64	06	1	18	30	X		X	CTD
BURKE CHANNEL	7	52	01.7	127	39.3	64	05	26	23	150		X	X	BOTT
BURKE CHANNEL	7	52	21.2	127	11.6	64	05	12	22	25	X		X	CTD
BURKE CHANNEL	7	52	25.1	127	13.6	64	05	2	22	25	X		X	CTD
BURKE CHANNEL	8	51	47.5	127	57.1	64	06	6	23	160		X	X	BOTT
BURKE CHANNEL	8	51	47.5	128	02.6	64	06	1	19	30	X		X	CTD
BURKE CHANNEL	8	52	21.4	127	11.0	64	05	12	22	25	X		X	CTD
BURKE CHANNEL	8	52	24.9	127	11.3	64	05	2	22	25	X		X	CTD
BURKE CHANNEL	8	52	57.2	127	41.2	64	05	27	0	30	X		X	CTD
BURKE CHANNEL	9	51	47.3	127	59.4	64	06	7	0	160		X	X	BOTT
BURKE CHANNEL	9	51	57.5	127	42.0	64	05	27	0	30	X		X	CTD
BURKE CHANNEL	9	52	21.6	127	10.5	64	05	12	23	25	X		X	CTD
BURKE CHANNEL	9	52	25.0	127	12.4	64	05	2	23	25	X		X	CTD
BURKE CHANNEL	A	52	18.8	126	58.0	64	05	6	14	25	X		X	CTD
BURKE CHANNEL	A	52	19.1	127	09.1	64	05	3	15	25	X		X	CTD
BURKE CHANNEL	B	52	19.2	126	58.6	64	05	6	15	25	X		X	CTD
BURKE CHANNEL	B	52	19.7	127	08.6	64	05	3	15	25	X		X	CTD
BURKE CHANNEL	C	52	19.8	126	59.3	64	05	6	16	25	X		X	CTD
BURKE CHANNEL	C	52	20.3	127	08.1	64	05	3	16	25	X		X	CTD

BURKE CHANNEL	D	52	19.2	127	00.4	64	05	6	17	25		X		X	CTD		
BURKE CHANNEL	D	52	19.9	127	03.0	64	05	3	19	25		X		X	CTD		
BURKE CHANNEL	E	52	18.5	126	01.4	64	05	6	18	25		X		X	CTD		
BURKE CHANNEL	E	52	19.3	127	02.5	64	05	3	19	25		X		X	CTD		
BURKE CHANNEL	F	52	18.7	127	02.0	64	05	3	20	25		X		X	CTD		
BURKE CHANNEL	G	52	18.8	126	57.8	64	05	3	21	25		X		X	CTD		
BURKE CHANNEL	H	52	19.2	126	58.5	64	05	3	22	25		X		X	CTD		
BURKE CHANNEL	I	52	19.8	126	59.4	64	05	3	22	25		X		X	CTD		
BURKE CHANNEL	10	51	57.9	127	42.6	64	05	27	1	30		X		X	CTD		
BURKE CHANNEL	11	51	57.6	127	44.6	64	05	27	1	50			X	X	BOTT		
BURKE CHANNEL	12	51	57.3	127	45.8	64	05	27	1	30		X		X	CTD		
BURKE CHANNEL	13	51	56.3	127	48.8	64	05	27	2	100			X	X	BOTT		
BURKE CHANNEL	14	51	54.4	127	52.2	64	05	27	13	150			X	X	BOTT		
BURKE CHANNEL	15	51	54.9	127	52.7	64	05	27	14	150			X	X	BOTT		
BURKE CHANNEL	16	51	55.5	127	53.1	64	05	27	15	150			X	X	BOTT		
BURKE CHANNEL	17	51	54.4	127	52.2	64	05	28	0	150			X	X	BOTT		
BURKE CHANNEL	18	51	54.9	127	52.2	64	05	28	1	150			X	X	BOTT		
BURKE CHANNEL	19	51	55.5	127	53.1	64	05	28	2	150			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 65-0011
YEAR:1965 VESSEL/AGENCY: ACONA

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
DIXON ENTRANCE		54	45.7	130	59.6	65	03	20	17	?	284		X	X	BOTT		
DIXON ENTRANCE		54	45.8	130	58.9	65	10	01	02	143	182		X	X	BOTT		
DIXON ENTRANCE	3	54	45.8	130	58.9	65	01	09	16	149	237		X	X	BOTT		
OGDEN CHANNEL	4	53	55.3	130	13.6	65	01	10	2	75	170		X	X	BOTT		
WHALE CHANNEL	5	53	16.5	129	7.8	65	01	10	9	400	484		X	X	BOTT		
FITZ HUGH SD.	6	51	40.1	127	55.6	65	01	11	2	200	324		X	X	BOTT		
WHALE CHANNEL	47	53	16.3	129	8.0	65	03	20	3	365			X	X	BOTT		
OGDEN CHANNEL	48	53	55.1	130	13.7	65	03	20	10	100	154		X	X	BOTT		
FITZ HUGH SD.	102	51	40.1	127	56.6	65	09	29	18	191	307		X	X	BOTT		
WHALE CHANNEL	103	53	16.5	129	7.8	65	09	30	10	171	504		X	X	BOTT		
OGDEN CHANNEL	104	53	55.3	130	13.6	65	09	30	18	74	145		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 65-0012
YEAR:1965 VESSEL/AGENCY: ENDEAVOUR

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
DIXON ENTRANCE	1	54	42.5	131	44.6	65	8	1	18	298	360	X		X	BOTT		
DIXON ENTRANCE	2	54	42.0	131	10.0	65	8	1	22	249	274	X		X	BOTT		
DIXON ENTRANCE	73	54	28.0	132	25.0	65	8	14	13	300	348	X		X	BOTT		
Q. C. SOUND	74	51	10.0	129	50.0	65	8	15	6		1000	X		X	BOTT		
Q. C. SOUND	75	51	4.9	128	12.0	65	8	15	11	146	159	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 65-0021
YEAR:1965 VESSEL/AGENCY: VELELLA

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
BURKE CHANNEL	1	52	22.2	126	53.2	65	04	22	14	100			X	X	BOTT		
BURKE CHANNEL	2	51	47.4	128	01.8	65	06	03	11	50		X		X	CTD		
BURKE CHANNEL	2	51	47.4	128	01.8	65	06	05	06	50		X		X	CTD		
BURKE CHANNEL	2	51	47.4	128	01.8	65	06	06	14	50		X		X	CTD		

BURKE CHANNEL	2	51	47.4	128	01.8	65	06	07	07	50	X		X	CTD
BURKE CHANNEL	2	52	22.6	126	48.3	65	04	15		50	X		X	CTD
BURKE CHANNEL	2	52	22.6	126	48.3	65	04	22		50	X		X	CTD
BURKE CHANNEL	2	52	22.6	126	48.3	65	05	02		50	X		X	CTD
BURKE CHANNEL	3	51	47.7	128	02.4	65	06	03	11	50	X		X	CTD
BURKE CHANNEL	3	51	47.7	128	02.4	65	06	05	06	50	X		X	CTD
BURKE CHANNEL	3	51	47.7	128	02.4	65	06	06	15	50	X		X	CTD
BURKE CHANNEL	3	51	47.7	128	02.4	65	06	07	07	50	X		X	CTD
BURKE CHANNEL	3	52	23.1	126	48.6	65	04	15		50	X		X	CTD
BURKE CHANNEL	3	52	23.1	126	48.6	65	04	22		50	X		X	CTD
BURKE CHANNEL	3	52	23.1	126	48.6	65	05	02		50	X		X	CTD
BURKE CHANNEL	4	51	48.1	128	02.9	65	06	03	11	50	X		[illegible]	CTD
BURKE CHANNEL	4	51	48.1	128	02.9	65	06	05	06	50	X		X	CTD
BURKE CHANNEL	4	51	48.1	128	02.9	65	06	06	15	50	X		X	CTD
BURKE CHANNEL	4	51	48.1	128	02.9	65	06	07	06	50	X		X	CTD
BURKE CHANNEL	4	52	23.6	126	49.0	65	04	15		50	X		X	CTD
BURKE CHANNEL	4	52	23.6	126	49.0	65	04	22		50	X		X	CTD
BURKE CHANNEL	4	52	23.6	126	49.0	65	05	02		50	X		X	CTD
BURKE CHANNEL	5	52	21.8	126	52.8	65	04	15		50	X		X	CTD
BURKE CHANNEL	5	52	21.8	126	52.8	65	04	22		50	X		X	CTD
BURKE CHANNEL	5	52	21.8	126	52.8	65	05	02		50	X		X	CTD
BURKE CHANNEL	6	52	22.1	126	53.1	65	04	15		50	X		X	CTD
BURKE CHANNEL	6	52	22.1	126	53.1	65	04	22		50	X		X	CTD
BURKE CHANNEL	6	52	22.1	126	53.1	65	05	02		50	X		X	CTD
BURKE CHANNEL	7	52	22.2	126	52.8	65	04	24	09	100		X	X	BOTT
BURKE CHANNEL	7	52	22.4	126	53.5	65	04	15		50	X		X	CTD
BURKE CHANNEL	7	52	22.4	126	53.5	65	04	22		50	X		X	CTD
BURKE CHANNEL	7	52	22.4	126	53.5	65	05	02		50	X		X	CTD
BURKE CHANNEL	8	52	20.9	126	55.3	65	04	15		50	X		X	CTD
BURKE CHANNEL	8	52	20.9	126	55.3	65	04	22		50	X		X	CTD
BURKE CHANNEL	8	52	20.9	126	55.3	65	05	02		50	X		X	CTD
BURKE CHANNEL	9	52	20.8	126	57.0	65	04	15		50	X		X	CTD
BURKE CHANNEL	9	52	20.8	126	57.0	65	04	22		50	X		X	CTD
BURKE CHANNEL	9	52	20.8	126	57.0	65	05	02		50	X		X	CTD
BURKE CHANNEL	10	52	20.7	126	58.1	65	04	15		50	X		X	CTD
BURKE CHANNEL	10	52	20.7	126	58.1	65	04	22		50	X		X	CTD
BURKE CHANNEL	10	52	20.7	126	58.1	65	05	02		50	X		X	CTD
BURKE CHANNEL	11	52	19.8	126	59.1	65	04	15		50	X		X	CTD
BURKE CHANNEL	11	52	19.8	126	59.1	65	04	22		50	X		X	CTD
BURKE CHANNEL	11	52	19.8	126	59.1	65	05	02		50	X		X	CTD
BURKE CHANNEL	12	52	19.3	126	58.5	65	04	15		50	X		X	CTD
BURKE CHANNEL	12	52	19.3	126	58.5	65	04	22		50	X		X	CTD
BURKE CHANNEL	12	52	19.3	126	58.5	65	05	02		50	X		X	CTD
BURKE CHANNEL	13	52	18.8	126	57.9	65	04	15		50	X		X	CTD
BURKE CHANNEL	13	52	18.8	126	57.9	65	04	22		50	X		X	CTD
BURKE CHANNEL	13	52	18.8	126	57.9	65	05	02		50	X		X	CTD
BURKE CHANNEL	14	52	18.4	126	58.9	65	04	15		50	X		X	CTD
BURKE CHANNEL	14	52	18.4	126	58.9	65	04	22		50	X		X	CTD
BURKE CHANNEL	15	52	18.1	126	00.2	65	04	15		50	X		X	CTD
BURKE CHANNEL	15	52	18.1	126	00.2	65	04	22		50	X		X	CTD
BURKE CHANNEL	16	52	19.9	127	03.4	65	04	15		50	X		X	CTD
BURKE CHANNEL	16	52	19.9	127	03.4	65	04	22		50	X		X	CTD
BURKE CHANNEL	17	52	19.1	127	03.4	65	04	15		50	X		X	CTD
BURKE CHANNEL	17	52	19.1	127	03.4	65	04	22		50	X		X	CTD
BURKE CHANNEL	18	52	18.3	127	03.4	65	04	15		50	X		X	CTD
BURKE CHANNEL	18	52	18.3	127	03.4	65	04	22		50	X		X	CTD
BURKE CHANNEL	19	52	18.8	127	07.0	65	04	15		50	X		X	CTD
BURKE CHANNEL	19	52	18.8	127	07.0	65	04	22		50	X		X	CTD
BURKE CHANNEL	20	52	19.3	127	06.7	65	04	15		50	X		X	CTD
BURKE CHANNEL	20	52	19.3	127	06.7	65	04	22		50	X		X	CTD
BURKE CHANNEL	21	52	19.9	127	06.4	65	04	15		50	X		X	CTD
BURKE CHANNEL	21	52	19.9	127	06.4	65	04	22		50	X		X	CTD
BURKE CHANNEL	22	52	18.8	127	10.6	65	04	15		50	X		X	CTD
BURKE CHANNEL	22	52	18.8	127	10.6	65	04	22		50	X		X	CTD
BURKE CHANNEL	23	52	19.1	127	11.4	65	04	15		50	X		X	CTD
BURKE CHANNEL	23	52	19.1	127	11.4	65	04	22		50	X		X	CTD
BURKE CHANNEL	24	52	19.4	127	12.5	65	04	15		50	X		X	CTD
BURKE CHANNEL	24	52	19.4	127	12.5	65	04	22		50	X		X	CTD
BURKE CHANNEL	25	52	17.6	127	12.3	65	04	15		50	X		X	CTD
BURKE CHANNEL	25	52	17.6	127	12.3	65	04	22		50	X		X	CTD
BURKE CHANNEL	26	52	17.4	127	13.7	65	04	15		50	X		X	CTD
BURKE CHANNEL	26	52	17.4	127	13.7	65	04	22		50	X		X	CTD
BURKE CHANNEL	27	52	17.3	127	15.3	65	04	15		50	X		X	CTD
BURKE CHANNEL	27	52	17.3	127	15.3	65	04	22		50	X		X	CTD
BURKE CHANNEL	28	52	21.6	127	11.8	65	04	15		50	X		X	CTD
BURKE CHANNEL	28	52	21.6	127	11.8	65	04	22		50	X		X	CTD
BURKE CHANNEL	29	52	21.8	127	11.2	65	04	15		50	X		X	CTD
BURKE CHANNEL	29	52	21.8	127	11.2	65	04	22		50	X		X	CTD
BURKE CHANNEL	30	52	22.0	127	10.8	65	04	15		50	X		X	CTD
BURKE CHANNEL	30	52	22.0	127	10.8	65	04	22		50	X		X	CTD
BURKE CHANNEL	31	52	25.1	127	13.6	65	04	15		50	X		X	CTD
BURKE CHANNEL	31	52	25.1	127	13.6	65	04	22		50	X		X	CTD
BURKE CHANNEL	32	52	25.1	127	12.5	65	04	15		50	X		X	CTD

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	C	S	T	INSTR	INT HR	NO
BURKE CHANNEL	32	52	25.1	127	12.5	65	04	22		50		X		X	CTD		
BURKE CHANNEL	33	52	25.1	127	11.3	65	04	15		50		X		X	CTD		
BURKE CHANNEL	33	52	25.1	127	11.3	65	04	22		50		X		X	CTD		
BURKE CHANNEL	47	51	47.2	127	59.7	65	06	03		60		X		X	CTD		
BURKE CHANNEL	47	51	47.2	127	59.7	65	06	05		60		X		X	CTD		
BURKE CHANNEL	47	51	47.2	127	59.7	65	06	06		60		X		X	CTD		
BURKE CHANNEL	48	51	47.4	127	56.9	65	06	03		60		X		X	CTD		
BURKE CHANNEL	48	51	47.4	127	56.9	65	06	05		60		X		X	CTD		
BURKE CHANNEL	48	51	47.4	127	56.9	65	06	06		60		X		X	CTD		
BURKE CHANNEL	49	51	47.9	127	54.0	65	06	03		60		X		X	CTD		
BURKE CHANNEL	49	51	47.9	127	54.0	65	06	05		60		X		X	CTD		
BURKE CHANNEL	49	51	47.9	127	54.0	65	06	06		60		X		X	CTD		

BOTTLE/CTD DATA SET NUMBER: 66-0013
YEAR:1966 VESSEL/AGENCY: ENDEAVOUR

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO (M)	DEPTH (M)	MEAS C	S	T		HR	
B.C. INLETS	14	51	54.2	127	56.9	66	5	12	11	300	348	X		X	BOTT		
B.C. INLETS	15	52	8.3	127	35.0	66	5	12	13	400	430	X		X	BOTT		
B.C. INLETS	16	52	11.9	127	28.8	66	5	12	15	500	580	X		X	BOTT		
B.C. INLETS	17	52	16.5	127	15.6	66	5	12	16	496	563	X		X	BOTT		
B.C. INLETS	18	52	19.4	127	2.8	66	5	12	18	396	497	X		X	BOTT		
B.C. INLETS	19	52	22.7	126	50.6	66	5	12	19	275	278	X		X	BOTT		
B.C. INLETS	20	52	29.3	127	14.5	66	5	12	22	448	485	X		X	BOTT		
B.C. INLETS	21	52	38.3	127	0.8	66	5	13		396	472	X		X	BOTT		
B.C. INLETS	22	52	50.0	126	59.6	66	5	13	1	150	161	X		X	BOTT		
B.C. INLETS	23	52	22.0	127	27.4	66	5	13	5	400	465	X		X	BOTT		
B.C. INLETS	24	52	15.0	127	47.0	66	5	13	7	400	421	X		X	BOTT		
B.C. INLETS	25	53	19.8	128	54.3	66	5	13	17	399	448	X		X	BOTT		
B.C. INLETS	26	53	33.3	128	59.2	66	5	13	18	200	241	X		X	BOTT		
B.C. INLETS	27	53	32.8	128	46.5	66	5	13	20	150	179	X		X	BOTT		
B.C. INLETS	28	53	27.4	128	36.5	66	5	13	22	200	245	X		X	BOTT		
B.C. INLETS	29	53	28.9	128	20.4	66	5	13	23	450	457	X		X	BOTT		
B.C. INLETS	30	53	28.0	128	12.3	66	5	14		400	446	X		X	BOTT		
B.C. INLETS	31	53	19.6	127	56.2	66	5	14	2	250	254	X		X	BOTT		
B.C. INLETS	32	53	53.8	128	44.3	66	5	14	8	248	260	X		X	BOTT		
B.C. INLETS	33	53	58.3	128	40.8	66	5	14	9	150	161	X		X	BOTT		
B.C. INLETS	34	53	47.3	128	53.5	66	5	14	11	350	373	X		X	BOTT		
B.C. INLETS	35	53	40.2	129	7.9	66	5	14	12	350	384	X		X	BOTT		
B.C. INLETS	36	53	30.8	129	12.4	66	5	14	14	299	351	X		X	BOTT		
B.C. INLETS	37	53	22.3	129	11.6	66	5	14	15	397	448	X		X	BOTT		
B.C. INLETS	39	54	50.2	130	13.5	66	5	15	20	400	435	X		X	BOTT		
B.C. INLETS	40	55	0.2	130	8.5	66	5	15	21	250	296	X		X	BOTT		
B.C. INLETS	41	55	14.5	130	1.8	66	5	15	23	298	326	X		X	BOTT		
B.C. INLETS	42	55	22.5	130	1.5	66	5	16		200	249	X		X	BOTT		
B.C. INLETS	43	55	32.3	130	6.4	66	5	16	2	199	225	X		X	BOTT		
B.C. INLETS	44	55	43.6	130	8.8	66	5	16	3	350	404	X		X	BOTT		
B.C. INLETS	45	55	48.5	130	6.9	66	5	16	4	250	276	X		X	BOTT		
B.C. INLETS	46	55	53.5	130	1.0	66	5	16	5	150	205	X		X	BOTT		
B.C. INLETS	47	55	8.1	129	55.1	66	5	16	12	400	454	X		X	BOTT		
B.C. INLETS	48	55	18.1	129	47.5	66	5	16	14	500	525	X		X	BOTT		
B.C. INLETS	49	55	27.1	129	37.1	66	5	16	15	346	379	X		X	BOTT		
B.C. INLETS	50	55	28.0	129	29.0	66	5	16	17	75	104	X		X	BOTT		
B.C. INLETS	51	55	26.6	129	31.6	66	5	16	17	250	263	X		X	BOTT		
B.C. INLETS	52	55	29.0	129	45.0	66	5	16	19	249	285	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 66-0022
YEAR:1966 VESSEL/AGENCY: FOG,G.B.REED

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO (M)	DEPTH (M)	MEAS C	S	T		HR	
DIXON ENTRANCE	76	54	30.0	132	40.0	66	07	07		275				X	BT		
Q.C.SOUND	101	51	30.0	129	55.0	66	08	03		250				X	BT		
DIXON ENTRANCE	169	54	14.0	132	10.0	66	08	19		135				X	BT		

DIXON ENTRANCE	170	54 14.0	132 20.0	66 08 19	135				X	BT		
DIXON ENTRANCE	171	54 36.0	132 19.0	66 08 20	135				X	BT		
DIXON ENTRANCE	172	54 35.0	132 05.0	66 08 20	135				X	BT		
DIXON ENTRANCE	173	54 36.0	131 41.0	66 08 21	135				X	BT		
HECATE STRAIT	174	53 09.0	130 32.0	66 08 21	135				X	BT		
Q.C.SOUND	175	51 00.0	128 00.0	66 08 23	135				X	BT		

BOTTLE/CTD DATA SET NUMBER: 66-0023
YEAR:1966 VESSEL/AGENCY: VELELLA

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
BURKE CHANNEL	1	52 23.1	126 48.3	66 04 02			X		X	CTD		
BURKE CHANNEL	1	52 23.1	126 48.3	66 04 03			X		X	CTD		
BURKE CHANNEL	1	52 23.1	126 48.3	66 04 12			X		X	CTD		
BURKE CHANNEL	1	52 23.1	126 48.3	66 04 20			X		X	CTD		
BURKE CHANNEL	1	52 23.1	126 48.3	66 05 10			X		X	CTD		
BURKE CHANNEL	1	52 23.1	126 48.3	66 06 16			X		X	CTD		
BURKE CHANNEL	2	52 22.4	126 50.3	66 04 02			X		X	CTD		
BURKE CHANNEL	2	52 22.4	126 50.3	66 04 03			X		X	CTD		
BURKE CHANNEL	2	52 22.4	126 50.3	66 04 12			X		X	CTD		
BURKE CHANNEL	2	52 22.4	126 50.3	66 04 21			X		X	CTD		
BURKE CHANNEL	2	52 22.4	126 50.3	66 06 10			X		X	CTD		
BURKE CHANNEL	3	52 22.7	126 50.5	66 04 02			X		X	CTD		
BURKE CHANNEL	3	52 22.7	126 50.5	66 04 03			X		X	CTD		
BURKE CHANNEL	3	52 22.7	126 50.5	66 04 12			X		X	CTD		
BURKE CHANNEL	3	52 22.7	126 50.5	66 04 21			X		X	CTD		
BURKE CHANNEL	3	52 22.7	126 50.5	66 06 10			X		X	CTD		
BURKE CHANNEL	4	52 23.1	126 50.8	66 04 02			X		X	CTD		
BURKE CHANNEL	4	52 23.1	126 50.8	66 04 03			X		X	CTD		
BURKE CHANNEL	4	52 23.1	126 50.8	56 04 12			X		X	CTD		
BURKE CHANNEL	4	52 23.1	126 50.8	66 04 21			X		X	CTD		
BURKE CHANNEL	4	52 23.1	126 50.8	66 06 10			X		X	CTD		
BURKE CHANNEL	5	52 22.2	126 52.8	66 04 02			X		X	CTD		
BURKE CHANNEL	5	52 22.2	126 52.8	66 04 03			X		X	CTD		
BURKE CHANNEL	5	52 22.2	126 52.8	66 04 12			X		X	CTD		
BURKE CHANNEL	5	52 22.2	126 52.8	66 04 21			X		X	CTD		
BURKE CHANNEL	5	52 22.2	126 52.8	66 05 10			X		X	CTD		
BURKE CHANNEL	5	52 22.2	126 52.8	66 06 10			X		X	CTD		
BURKE CHANNEL	6	52 19.2	126 59.2	66 04 02			X		X	CTD		
BURKE CHANNEL	6	52 19.2	126 59.2	66 04 03			X		X	CTD		
BURKE CHANNEL	6	52 19.2	126 59.2	66 04 21			X		X	CTD		
BURKE CHANNEL	6	52 19.2	126 59.2	66 04 24			X		X	CTD		
BURKE CHANNEL	6	52 19.2	126 59.2	66 06 10			X		X	CTD		
BURKE CHANNEL	7	52 18.3	126 58.7	66 04 02			X		X	CTD		
BURKE CHANNEL	7	52 18.3	126 58.7	66 04 03			X		X	CTD		
BURKE CHANNEL	7	52 18.3	126 58.7	66 05 11			X		X	CTD		
BURKE CHANNEL	7	52 18.3	126 58.7	66 06 10			X		X	CTD		
BURKE CHANNEL	8	52 11.8	127 27.5	66 05 11			X		X	CTD		
BURKE CHANNEL	8	52 11.8	127 27.5	66 06 10			X		X	CTD		
BURKE CHANNEL	9	52 12.2	127 27.5	66 05 11			X		X	CTD		
BURKE CHANNEL	9	52 12.2	127 27.5	66 06 10			X		X	CTD		
BURKE CHANNEL	10	52 12.8	127 27.5	66 05 11			X		X	CTD		
BURKE CHANNEL	10	52 12.8	127 27.5	66 06 10			X		X	CTD		
BURKE CHANNEL	11	52 10.3	127 31.4	66 06 10			X		X	CTD		
BURKE CHANNEL	12	52 07.9	127 36.9	66 05 17			X		X	CTD		
BURKE CHANNEL	12	52 07.9	127 36.9	66 06 10			X		X	CTD		
BURKE CHANNEL	13	52 01.3	127 40.1	66 05 17			X		X	CTD		
BURKE CHANNEL	14	51 57.5	127 43.6	66 05 17			X		X	CTD		
BURKE CHANNEL	15	51 54.9	127 52.7	66 06 10			X		X	CTD		
BURKE CHANNEL	16	52 04.9	127 37.8				X		X	CTD		
BURKE CHANNEL	17	52 04.9	127 38.7				X		X	CTD		
BURKE CHANNEL	18	52 04.9	127 39.7	66 05 18			X		X	CTD		
BURKE CHANNEL	19	52 19.8	127 28.9				X		X	CTD		
BURKE CHANNEL	21	51 55.5	127 53.1	66 06 10			X		X	CTD		
BURKE CHANNEL	22	51 54.4	127 52.2	66 06 10			X		X	CTD		
BURKE CHANNEL	23	51 56.0	127 57.4	66 06 10			X		X	CTD		
BURKE CHANNEL	24	51 56.0	127 55.9	66 06 10			X		X	CTD		
BURKE CHANNEL	25	51 56.0	127 54.6	66 06 10			X		X	CTD		
BURKE CHANNEL	26	51 46.9	127 59.3	66 06 10			X		X	CTD		
BURKE CHANNEL	27	51 46.9	127 56.4	66 06 10			X		X	CTD		
BURKE CHANNEL	28	51 46.9	127 53.6	66 06 10			X		X	CTD		
BURKE CHANNEL	29	51 47.2	128 02.1	66 06 10			X		X	CTD		
BURKE CHANNEL	30	51 47.8	128 02.4	66 06 10			X		X	CTD		

BURKE CHANNEL	31	51	48.4	128	02.8	66	06	10				X		X	CTD		

BOTTLE/CTD DATA SET NUMBER: 67-0008
YEAR:1967 VESSEL/AGENCY: PARRY

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR *PST	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
PRINCE RUPERT	P-1	54	20.45	130	17.0	67	08	07	14*	55	57	X		X	BECK		
PRINCE RUPERT	P-1	54	20.45	130	17.02	67	07	17	07	50	56	X		X	BECK		
PRINCE RUPERT	P-3	54	16.95	130	21.83	67	07	17	09	44	46	X		X	BECK		
PRINCE RUPERT	P-3	54	16.97	130	21.85	67	08	07	13	37	47	X		X	BECK		
PRINCE RUPERT	P-4	54	13.97	130	20.85	67	07	17	10	50	53	X		X	BECK		
PRINCE RUPERT	P-4	54	14.0	130	20.83	67	08	07	12	50	52	X		X	BECK		
PRINCE RUPERT	P-8	54	11.95	130	18.47	67	08	07	11	25	26	X		X	BECK		
PRINCE RUPERT	P-8	54	12.0	130	18.45	67	07	17	11	25	26	X		X	BECK		
PRINCE RUPERT	P-10	54	13.15	130	17.58	67	08	07	10	20	21	X		X	BECK		
PRINCE RUPERT	P-10	54	13.18	130	17.6	67	07	17	12	20	23	X		X	BECK		
PRINCE RUPERT	P-12	54	13.95	130	18.08	67	08	07	09	18	19	X		X	BECK		
PRINCE RUPERT	P-12	54	13.97	130	18.07	67	07	17	13	19	20	X		X	BECK		
PRINCE RUPERT	P-14	54	14.55	130	18.42	67	07	17	14	20	23	X		X	BECK		
PRINCE RUPERT	P-14	54	14.6	130	18.4	67	08	07	08	17	17	X		X	BECK		
PRINCE RUPERT	P-16	54	14.93	130	16.77	67	08	06	12	35	42	X		X	BECK		
PRINCE RUPERT	P-20	54	15.93	130	14.63	67	07	16	17	50	52	X		X	BECK		
PRINCE RUPERT	P-20	54	15.93	130	14.71	67	08	06	15	55	57	X		X	BECK		
PRINCE RUPERT	P-25	54	16.69	130	14.68	67	08	06	16	45	60	X		X	BECK		
PRINCE RUPERT	P-25	54	16.7	130	14.7	67	07	16	18	50	53	X		X	BECK		
PRINCE RUPERT	P-26	54	17.48	130	14.74	67	08	06	16	20	47	X		X	BECK		
PRINCE RUPERT	P-26	54	17.5	130	14.75	67	07	16	19	30	32	X		X	BECK		
PRINCE RUPERT	19A10	54	15.26	130	15.43	67	07	21	14	10	11	X		X	BECK		
PRINCE RUPERT	19A11	54	15.26	130	15.43	67	07	22	15	10	11	X		X	BECK		
PRINCE RUPERT	19A12	54	15.26	130	15.43	67	07	23	15	10	11	X		X	BECK		
PRINCE RUPERT	19A13	54	15.26	130	15.43	67	07	24	16	10	11	X		X	BECK		
PRINCE RUPERT	19A14	54	15.26	130	15.43	67	07	25	16	10	11	X		X	BECK		
PRINCE RUPERT	19A15	54	15.26	130	15.43	67	07	26	17	10	11	X		X	BECK		
PRINCE RUPERT	19A16	54	15.26	130	15.43	67	07	27	17	10	11	X		X	BECK		
PRINCE RUPERT	19A17	54	15.26	130	15.43	67	07	28	17	10	11	X		X	BECK		
PRINCE RUPERT	19A18	54	15.26	130	15.43	67	07	29	18	10	11	X		X	BECK		
PRINCE RUPERT	19A19	54	15.26	130	15.43	67	07	30	19	10	11	X		X	BECK		
PRINCE RUPERT	19A20	54	15.26	130	15.43	67	07	31	20	10	11	X		X	BECK		
PRINCE RUPERT	19A21	54	15.26	130	15.43	67	08	01	11	10	11	X		X	BECK		
PRINCE RUPERT	19A22	54	15.26	130	15.43	67	08	02	12	10	11	X		X	BECK		
PRINCE RUPERT	19A23	54	15.26	130	15.43	67	08	03	13	10	11	X		X	BECK		
PRINCE RUPERT	19A24	54	15.26	130	15.43	67	08	04	13	10	11	X		X	BECK		
PRINCE RUPERT	19A25	54	15.26	130	15.43	67	08	05	14	10	11	X		X	BECK		
PRINCE RUPERT	P-17A	54	14.97	130	15.97	67	08	06	14	25	25	X		X	BECK		
PRINCE RUPERT	P19A1	54	15.26	130	15.43	67	07	11	17	10	11	X		X	BECK		
PRINCE RUPERT	P19A2	54	15.26	130	15.43	67	07	12	17	10	11	X		X	BECK		
PRINCE RUPERT	P19A3	54	15.26	130	15.43	67	07	13	16	10	11	X		X	BECK		
PRINCE RUPERT	P19A4	54	15.26	130	15.43	67	07	14	19	10	11	X		X	BECK		
PRINCE RUPERT	P19A5	54	15.26	130	15.43	67	07	15	08	10	11	X		X	BECK		
PRINCE RUPERT	P19A6	54	15.26	130	15.43	67	07	16	09	9	11	X		X	BECK		
PRINCE RUPERT	P19A7	54	15.26	130	15.43	67	07	18	11	10	11	X		X	BECK		
PRINCE RUPERT	P19A8	54	15.26	130	15.43	67	07	19	12	10	11	X		X	BECK		
PRINCE RUPERT	P19A9	54	15.26	130	15.43	67	07	20	13	10	11	X		X	BECK		

BOTTLE/CTD DATA SET NUMBER: 67-0009
YEAR:1967 VESSEL/AGENCY: KNIGHT

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR *PST	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
KITIMAT ARM	1	53	55.8	128	43.0	67	09	27	16*	60	99	X		X	BECK		
KITIMAT ARM	2	53	55.5	128	42.12	67	09	27	17	60	237	X		X	BECK		
KITIMAT ARM	3	53	52.2	128	41.3	67	09	27	18	60	220	X		X	BECK		
KITIMAT ARM	4	53	56.1	128	40.5	67	09	28	07	60	201	X		X	BECK		
KITIMAT ARM	5	53	56.6	128	42.4	67	09	28	07	60	176	X		X	BECK		

KITIMAT ARM	6	53	56.3	128	41.5	67	09	28	06	60	209	X		X	BECK
KITIMAT ARM	6	53	57.3	128	42.2	67	09	28	09	60	99	X		X	BECK
KITIMAT ARM	7	53	57.23	128	41.6	67	09	28	09	60	190	X		X	BECK
KITIMAT ARM	8	53	57.1	128	41.0	67	09	28	09	60	201	X		X	BECK
KITIMAT ARM	9	53	57.08	128	40.5	67	09	28	10	60	199	X		X	BECK
KITIMAT ARM	10	53	57.0	128	39.8	67	09	28	10	60	120	X		X	BECK
KITIMAT ARM	11	53	57.83	128	39.3	67	09	28	10	60	102	X		X	BECK
KITIMAT ARM	12	53	58.0	128	41.9	67	09	28	10	60	157	X		X	BECK
KITIMAT ARM	13	53	58.67	128	41.7	67	09	28	11	60	80	X		X	BECK
KITIMAT ARM	14	53	58.55	128	41.4	67	09	28	12	60	154	X		X	BECK
KITIMAT ARM	15	53	58.5	128	40.53	67	09	28	12	60	146	X		X	BECK
KITIMAT ARM	16	53	58.5	128	40.0	67	09	28	12	60	143	X		X	BECK
KITIMAT ARM	17	53	58.5	128	39.47	67	09	28	12	60	124	X		X	BECK
DOUGLAS CH	K-1	53	25.4	129	12.5	67	09	27	08	300	406		X	X	BOTT
DOUGLAS CH	K-2	53	36.82	129	12.8	67	09	27	10	296	315		X	X	BOTT
DOUGLAS CH	K-3	53	44.8	129	00.5	67	09	27	12	300	360		X	X	BOTT
DOUGLAS CH	K-4	53	49.2			67	09	27	14	299			X	X	BOTT
KITIMAT ARM	K-5	53	54.4	128	44.0	67	09	27	15	250	263		X	X	BOTT
KITIMAT ARM	K-5	53	54.4	128	44.0	67	09	27	16	60	263	X		X	BECK
KITIMAT ARM	K-6	53	56.3	128	41.5	67	09	28	08	200	208		X	X	BOTT
KITIMAT ARM	K-7	53	57.8	128	40.7	67	09	28	08	60	183	X		X	BECK
KITIMAT ARM	K-7	53	57.8	128	40.7	67	09	28	08	170	183		X	X	BOTT
KITIMAT ARM	K-8	53	59.25	128	41.22	67	09	28	12	60	86	X		X	BECK
KITIMAT ARM	K-8	53	59.25	128	41.22	67	09	28	13	70	86		X	X	BOTT
KITIMAT ARM	K-9	53	59.3	128	40.5	67	09	28	14	70	82		X	X	BOTT
KITIMAT ARM	K-9	53	59.3	128	40.5	67	09	28	14	60	82	X		X	BECK
KITIMAT ARM	K-10	53	59.2	128	39.7	67	09	28	14	60	88	X		X	BECK
KITIMAT ARM	K-10	53	59.2	128	39.7	67	09	28	15	70	88		X	X	BOTT
KITIMAT ARM	K-11	54	01.45	128	37.2	67	09	28	11	35	38		X	X	BOTT

BOTTLE/CTD DATA SET NUMBER: 67-0014
YEAR:1967 VESSEL/AGENCY: EUROCAN PULP

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
KITIMAT ARM	PT-A	54	00.0	128	40.0	67	07	11	12	20	22		X	X	BOTT		
KITIMAT ARM	PT-C	54	00.0	128	40.0	67	07	09	20	30			X	X	BOTT		
KITIMAT ARM	PT-B1	54	00.0	128	40.0	67	07	09	20	25			X	X	BOTT		
KITIMAT ARM	PT-B2	54	00.0	128	40.0	67	07	11	11	28	29		X	X	BOTT		
KITIMAT ARM	PT-B3	54	00.0	128	40.0	67	07	11	11	30			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 67-0022
YEAR:1967 VESSEL/AGENCY: ENDEAVOUR

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. SOUND	49	50	55.0	128	40.3	67	9	18	12	60	128	X		X	BISS		
Q. C. SOUND	50	51	9.8	128	35.5	67	9	18	14	130	153	X		X	BISS		
Q. C. SOUND	51	51	24.5	128	30.5	67	9	18	15	170	192	X		X	BISS		
Q. C. SOUND	52	51	40.0	128	25.0	67	9	18	17	125	146	X		X	BOTT		
Q. C. SOUND	53	51	33.6	128	38.0	67	9	18	19	20	54	X		X	BISS		
Q. C. SOUND	54	51	27.5	128	49.5	67	9	18	21	70	109	X		X	BISS		
Q. C. SOUND	55	51	20.5	129	2.0	67	9	18	22	198	237	X		X	BISS		
Q. C. SOUND	56	51	14.9	129	14.0	67	9	19		236	283	X		X	BISS		
Q. C. SOUND	69	51	30.5	130	16.5	67	9	20	21	750	822	X		X	BISS		
Q. C. SOUND	70	51	39.0	130	1.3	67	9	20	23	300	310	X		X	BISS		
Q. C. SOUND	71	51	50.8	129	34.6	67	9	21	1	230	230	X		X	BISS		
Q. C. SOUND	72	51	57.5	129	20.4	67	9	21	2	180	201	X		X	BISS		
HECATE STRAIT	73	52	4.0	129	8.0	67	9	21	3	136	155	X		X	BISS		
HECATE STRAIT	74	52	10.0	128	55.0	67	9	21	5	100		X		X	BISS		
HECATE STRAIT	75	52	28.0	129	34.0	67	9	21	7	80		X		X	BISS		
HECATE STRAIT	76	52	23.3	129	47.5	67	9	21	9	180	228	X		X	BISS		
HECATE STRAIT	77	52	19.5	130	0.0	67	9	21	10	100	124	X		X	BISS		
HECATE STRAIT	78	52	10.6	130	16.0	67	9	21	11	450	493	X		X	BISS		
HECATE STRAIT	79	52	6.1	130	33.8	67	9	21	14	270	283	X		X	BISS		

HECATE STRAIT	80	52	0.0	130	51.0	67	9	21	15	190	219	X		X	BISS
HECATE STRAIT	81	52	54.8	131	18.5	67	9	21	21	70	91	X		X	BISS
HECATE STRAIT	82	52	58.7	130	55.0	67	9	21	22	28	36	X		X	BISS
HECATE STRAIT	83	53	0.8	130	41.8	67	9	21	23	110	128	X		X	BISS
HECATE STRAIT	84	53	3.2	130	24.2	67	9	22		170	192	X		X	BISS
HECATE STRAIT	85	53	5.1	130	11.7	67	9	22	1	165	173	X		X	BISS
HECATE STRAIT	86	53	19.0	131	38.0	67	9	22	6	16	21	X		X	BISS
HECATE STRAIT	87	53	23.3	131	22.0	67	9	22	7	28	31	X		X	BISS
HECATE STRAIT	88	53	28.1	131	8.0	67	9	22	9	30	38	X		X	BISS
HECATE STRAIT	89	53	32.2	130	52.0	67	9	22	10	70	80	X		X	BISS
DIXON ENTRANCE	90	54	10.8	131	2.5	67	9	24	19	80	109	X		X	BISS
DIXON ENTRANCE	91	54	9.4	131	15.0	67	9	24	20	18	23	X		X	BISS
DIXON ENTRANCE	92	54	8.6	131	23.2	67	9	24	21	20	25	X		X	BISS
DIXON ENTRANCE	93	54	7.4	131	32.0	67	9	24	22	15	20	X		X	BISS
DIXON ENTRANCE	94	54	13.4	131	45.0	67	9	25		100	113	X		X	BISS
DIXON ENTRANCE	95	54	19.5	131	47.7	67	9	25	1	184	201	X		X	BISS
DIXON ENTRANCE	96	54	25.8	131	51.5	67	9	25	2	250	274	X		X	BISS
DIXON ENTRANCE	97	54	33.0	131	55.0	67	9	25	3	270	283	X		X	BISS
DIXON ENTRANCE	98	54	36.7	131	58.0	67	9	25	4	200	219	X		X	BISS
DIXON ENTRANCE	99	54	35.5	132	45.0	67	9	25	6	264		X		X	BISS
DIXON ENTRANCE	100	54	29.5	132	50.6	67	9	25		300	365	X		X	BISS
DIXON ENTRANCE	101	54	23.0	132	56.5	67	9	25		200	219	X		X	BISS
DIXON ENTRANCE	102	54	18.4	133	00.9	67	9	25		300	438	X		X	BISS

BOTTLE/CTD DATA SET NUMBER: 67-0023
YEAR:1967 VESSEL/AGENCY: VELELLA

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
BURKE CHANNEL	1	52	23.2	126	47.5	67	04	08		50		X		X	CTD		
BURKE CHANNEL	1	52	23.2	126	47.5	67	04	12		50		X		X	CTD		
BURKE CHANNEL	1	52	23.2	126	47.5	67	04	12		50		X		X	CTD		
BURKE CHANNEL	1	52	23.2	126	47.5	67	04	13		50		X		X	CTD		
BURKE CHANNEL	1	52	23.2	126	47.5	67	04	13		50		X		X	CTD		
BURKE CHANNEL	1	52	23.2	126	47.5	67	04	14		50		X		X	CTD		
BURKE CHANNEL	1	52	23.2	126	47.5	67	04	14		50		X		X	CTD		
BURKE CHANNEL	1	52	23.2	126	47.5	67	04	17		50		X		X	CTD		
BURKE CHANNEL	1	52	23.2	126	47.5	67	04	21		50		X		X	CTD		
BURKE CHANNEL	1	52	23.2	126	47.5	67	04	21		50		X		X	CTD		
BURKE CHANNEL	1	52	23.2	126	47.5	67	04	24		50		X		X	CTD		
BURKE CHANNEL	1	52	23.2	126	47.5	67	04	27		50		X		X	CTD		
BURKE CHANNEL	1	52	23.2	126	47.5	67	04	27		50		X		X	CTD		
BURKE CHANNEL	1	52	23.2	126	47.5	67	05	01		50		X		X	CTD		
BURKE CHANNEL	1	52	23.2	126	47.5	67	05	01		50		X		X	CTD		
BURKE CHANNEL	1	52	23.2	126	47.5	67	05	06		50		X		X	CTD		
BURKE CHANNEL	1	52	23.2	126	47.5	67	05	06		50		X		X	CTD		
BURKE CHANNEL	1	52	23.2	126	47.5	67	05	08		50		X		X	CTD		
BURKE CHANNEL	1	52	23.2	126	47.5	67	05	08		50		X		X	CTD		
BURKE CHANNEL	1	52	23.2	126	47.5	67	05	16		50		X		X	CTD		
BURKE CHANNEL	1	52	23.2	126	47.5	67	05	16		50		X		X	CTD		
BURKE CHANNEL	1	52	23.2	126	47.5	67	05	23		50		X		X	CTD		
BURKE CHANNEL	2					67	04	21		50		X		X	CTD		
BURKE CHANNEL	2					67	04	27		50		X		X	CTD		
BURKE CHANNEL	2					67	05	01		50		X		X	CTD		
BURKE CHANNEL	2					67	05	06		50		X		X	CTD		
BURKE CHANNEL	2					67	05	08		50		X		X	CTD		
BURKE CHANNEL	2					67	05	16		50		X		X	CTD		
BURKE CHANNEL	3	52	22.7	126	47.5	67	04	21		50		X		X	CTD		
BURKE CHANNEL	3	52	22.7	126	47.5	67	04	27		50		X		X	CTD		
BURKE CHANNEL	3	52	22.7	126	47.5	67	05	01		50		X		X	CTD		
BURKE CHANNEL	3	52	22.7	126	47.5	67	05	06		50		X		X	CTD		
BURKE CHANNEL	3	52	22.7	126	47.5	67	05	08		50		X		X	CTD		
BURKE CHANNEL	3	52	22.7	126	47.5	67	05	16		50		X		X	CTD		
BURKE CHANNEL	3	52	22.7	126	47.5	67	05	23		50		X		X	CTD		
BURKE CHANNEL	3	52	22.7	126	50.1	67	04	08		50		X		X	CTD		
BURKE CHANNEL	3	52	22.7	126	50.1	67	04	12		50		X		X	CTD		
BURKE CHANNEL	3	52	22.7	126	50.1	67	04	12		50		X		X	CTD		
BURKE CHANNEL	3	52	22.7	126	50.1	67	04	13		50		X		X	CTD		
BURKE CHANNEL	3	52	22.7	126	50.1	67	04	13		50		X		X	CTD		
BURKE CHANNEL	3	52	22.7	126	50.1	67	04	14		50		X		X	CTD		
BURKE CHANNEL	3	52	22.7	126	50.1	67	04	14		50		X		X	CTD		
BURKE CHANNEL	3	52	22.7	126	50.1	67	04	17		50		X		X	CTD		
BURKE CHANNEL	3	52	22.7	126	50.1	67	04	21		50		X		X	CTD		
BURKE CHANNEL	3	52	22.7	126	50.1	67	04	27		50		X		X	CTD		

BURKE CHANNEL	3	52 22.7	126 50.1	67 05 01	50	X	X CTD
BURKE CHANNEL	3	52 22.7	126 50.1	67 05 06	50	X	X CTD
BURKE CHANNEL	3	52 22.7	126 50.1	67 05 08	50	X	X CTD
BURKE CHANNEL	3	52 23.2	126 47.5	67 04 24	50	X	X CTD
BURKE CHANNEL	3	52 23.2	126 47.5	67 05 16	50	X	X CTD
BURKE CHANNEL	3	52 23.2	126 47.5	67 05 16	50	X	X CTD
BURKE CHANNEL	3	52 23.2	126 47.5	67 05 23	50	X	X CTD
BURKE CHANNEL	4			67 04 27	50	X	X CTD
BURKE CHANNEL	4			67 05 01	50	X	X CTD
BURKE CHANNEL	4			67 05 06	50	X	X CTD
BURKE CHANNEL	4			67 05 08	50	X	X CTD
BURKE CHANNEL	4			67 05 16	50	X	X CTD
BURKE CHANNEL	4			67 05 23	50	X	X CTD
BURKE CHANNEL	5			67 04 21	50	X	X CTD
BURKE CHANNEL	5			67 04 27	50	X	X CTD
BURKE CHANNEL	5			67 05 01	50	X	X CTD
BURKE CHANNEL	5			67 05 06	50	X	X CTD
BURKE CHANNEL	5			67 05 08	50	X	X CTD
BURKE CHANNEL	5			67 05 16	50	X	X CTD
BURKE CHANNEL	5			67 05 23	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 04 08	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 04 12	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 04 12	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 04 13	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 04 13	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 04 14	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 04 14	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 04 17	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 04 21	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 04 21	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 04 24	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 04 27	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 04 27	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 05 01	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 05 01	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 05 06	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 05 06	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 05 08	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 05 08	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 05 16	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 05 16	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 05 23	50	X	X CTD
BURKE CHANNEL	6	52 22.1	126 52.9	67 05 23	50	X	X CTD
BURKE CHANNEL	7			67 04 21	50	X	X CTD
BURKE CHANNEL	7			67 04 27	50	X	X CTD
BURKE CHANNEL	7			67 05 01	50	X	X CTD
BURKE CHANNEL	7			67 05 06	50	X	X CTD
BURKE CHANNEL	7			67 05 08	50	X	X CTD
BURKE CHANNEL	7			67 05 16	50	X	X CTD
BURKE CHANNEL	7			67 05 23	50	X	X CTD
BURKE CHANNEL	8			67 04 21	50	X	X CTD
BURKE CHANNEL	8			67 04 27	50	X	X CTD
BURKE CHANNEL	8			67 05 01	50	X	X CTD
BURKE CHANNEL	8			67 05 06	50	X	X CTD
BURKE CHANNEL	8			67 05 08	50	X	X CTD
BURKE CHANNEL	8			67 05 16	50	X	X CTD
BURKE CHANNEL	8			67 05 23	50	X	X CTD
BURKE CHANNEL	9	52 21.4	126 55.4	67 04 08	50	X	X CTD
BURKE CHANNEL	9	52 21.4	126 55.4	67 04 12	50	X	X CTD
BURKE CHANNEL	9	52 21.4	126 55.4	67 04 13	50	X	X CTD
BURKE CHANNEL	9	52 21.4	126 55.4	67 04 14	50	X	X CTD
BURKE CHANNEL	9	52 21.4	126 55.4	67 04 21	50	X	X CTD
BURKE CHANNEL	9	52 21.4	126 55.4	67 04 24		X	X CTD
BURKE CHANNEL	9	52 21.4	126 55.4	67 04 27	50	X	X CTD
BURKE CHANNEL	9	52 21.4	126 55.4	67 05 01	50	X	X CTD
BURKE CHANNEL	9	52 21.4	126 55.4	67 05 06	50	X	X CTD
BURKE CHANNEL	9	52 21.4	126 55.4	67 05 08	50	X	X CTD
BURKE CHANNEL	9	52 21.4	126 55.4	67 05 16	50	X	X CTD
BURKE CHANNEL	9	52 21.4	126 55.4	67 05 23	50	X	X CTD
BURKE CHANNEL	10			67 04 21	50	X	X CTD
BURKE CHANNEL	10			67 04 27	50	X	X CTD
BURKE CHANNEL	10			67 05 01	50	X	X CTD
BURKE CHANNEL	10			67 05 06	50	X	X CTD
BURKE CHANNEL	10			67 05 08	50	X	X CTD
BURKE CHANNEL	10			67 05 16	50	X	X CTD
BURKE CHANNEL	10			67 05 23	50	X	X CTD
BURKE CHANNEL	11			67 04 21	50	X	X CTD
BURKE CHANNEL	11			67 05 01	50	X	X CTD
BURKE CHANNEL	11			67 05 06	50	X	X CTD
BURKE CHANNEL	11			67 05 08	50	X	X CTD
BURKE CHANNEL	11			67 05 16	50	X	X CTD
BURKE CHANNEL	11			67 05 23	50	X	X CTD
BURKE CHANNEL	11			67 05 23	50	X	X CTD

BURKE CHANNEL	12	52 19.4	126 58.2	67 04 08	50	X	X CTD
BURKE CHANNEL	12	52 19.4	126 58.2	67 04 12	50	X	X CTD
BURKE CHANNEL	12	52 19.4	126 58.2	67 04 13	50	X	X CTD
BURKE CHANNEL	12	52 19.4	126 58.2	67 04 19	50	X	X CTD
BURKE CHANNEL	12	52 19.4	126 58.2	67 04 21	50	X	X CTD
BURKE CHANNEL	12	52 19.4	126 58.2	67 04 24		X	X CTD
BURKE CHANNEL	12	52 19.4	126 58.2	67 04 27	50	X	X CTD
BURKE CHANNEL	12	52 19.4	126 58.2	67 05 01	50	X	X CTD
BURKE CHANNEL	12	52 19.4	126 58.2	67 05 06	50	X	X CTD
BURKE CHANNEL	12	52 19.4	126 58.2	67 05 08	50	X	X CTD
BURKE CHANNEL	12	52 19.4	126 58.2	67 05 16	50	X	X CTD
BURKE CHANNEL	12	52 19.4	126 58.2	67 05 23	50	X	X CTD
BURKE CHANNEL	12	52 19.4	126 58.4	67 04 14	50	X	X CTD
BURKE CHANNEL	13			67 04 19	50	X	X CTD
BURKE CHANNEL	13			67 04 21	50	X	X CTD
BURKE CHANNEL	13			67 04 27	50	X	X CTD
BURKE CHANNEL	13			67 05 01	50	X	X CTD
BURKE CHANNEL	13			67 05 06	50	X	X CTD
BURKE CHANNEL	13			67 05 08	50	X	X CTD
BURKE CHANNEL	13			67 05 16	50	X	X CTD
BURKE CHANNEL	13			67 05 23	50	X	X CTD
BURKE CHANNEL	14			67 04 19	50	X	X CTD
BURKE CHANNEL	14			67 04 21	50	X	X CTD
BURKE CHANNEL	14			67 04 27	50	X	X CTD
BURKE CHANNEL	14			67 05 01	50	X	X CTD
BURKE CHANNEL	14			67 05 06	50	X	X CTD
BURKE CHANNEL	14			67 05 08	50	X	X CTD
BURKE CHANNEL	14			67 05 16	50	X	X CTD
BURKE CHANNEL	14			67 05 23	50	X	X CTD
BURKE CHANNEL	15			67 04 19	50	X	X CTD
BURKE CHANNEL	15			67 04 21	50	X	X CTD
BURKE CHANNEL	15			67 04 27	50	X	X CTD
BURKE CHANNEL	15			67 05 01	50	X	X CTD
BURKE CHANNEL	15			67 05 06	50	X	X CTD
BURKE CHANNEL	15			67 05 08	50	X	X CTD
BURKE CHANNEL	15			67 05 16	50	X	X CTD
BURKE CHANNEL	15			67 05 23	50	X	X CTD
BURKE CHANNEL	16			67 04 19	50	X	X CTD
BURKE CHANNEL	16			67 04 21	50	X	X CTD
BURKE CHANNEL	16			67 04 27	50	X	X CTD
BURKE CHANNEL	16			67 05 01	50	X	X CTD
BURKE CHANNEL	16			67 05 06	50	X	X CTD
BURKE CHANNEL	16			67 05 08	50	X	X CTD
BURKE CHANNEL	16			67 05 16	50	X	X CTD
BURKE CHANNEL	16			67 05 23	50	X	X CTD
BURKE CHANNEL	17	52 19.4	127 01.7	67 04 08	50	X	X CTD
BURKE CHANNEL	17	52 19.4	127 01.7	67 04 13	50	X	X CTD
BURKE CHANNEL	17	52 19.4	127 01.7	67 04 14	50	X	X CTD
BURKE CHANNEL	17	52 19.4	127 01.7	67 04 19	50	X	X CTD
BURKE CHANNEL	17	52 19.4	127 01.7	67 04 21	50	X	X CTD
BURKE CHANNEL	17	52 19.4	127 01.7	67 04 24		X	X CTD
BURKE CHANNEL	17	52 19.4	127 01.7	67 04 27	50	X	X CTD
BURKE CHANNEL	17	52 19.4	127 01.7	67 05 01	50	X	X CTD
BURKE CHANNEL	17	52 19.4	127 01.7	67 05 06	50	X	X CTD
BURKE CHANNEL	17	52 19.4	127 01.7	67 05 08	50	X	X CTD
BURKE CHANNEL	17	52 19.4	127 01.7	67 05 16	50	X	X CTD
BURKE CHANNEL	17	52 19.4	127 01.7	67 05 23	50	X	X CTD
BURKE CHANNEL	18			67 04 19	50	X	X CTD
BURKE CHANNEL	18			67 04 21	50	X	X CTD
BURKE CHANNEL	18			67 04 27	50	X	X CTD
BURKE CHANNEL	18			67 05 01	50	X	X CTD
BURKE CHANNEL	18			67 05 06	50	X	X CTD
BURKE CHANNEL	18			67 05 08	50	X	X CTD
BURKE CHANNEL	18			67 05 16	50	X	X CTD
BURKE CHANNEL	18			67 05 23	50	X	X CTD
BURKE CHANNEL	19	52 19.1	127 05.0	67 04 19	50	X	X CTD
BURKE CHANNEL	19	52 19.1	127 05.0	67 04 21	50	X	X CTD
BURKE CHANNEL	19	52 19.1	127 05.0	67 04 26		X	X CTD
BURKE CHANNEL	19	52 19.1	127 05.0	67 04 27	50	X	X CTD
BURKE CHANNEL	19	52 19.1	127 05.0	67 05 01	50	X	X CTD
BURKE CHANNEL	19	52 19.1	127 05.0	67 05 06	50	X	X CTD
BURKE CHANNEL	19	52 19.1	127 05.0	67 05 08	50	X	X CTD
BURKE CHANNEL	19	52 19.1	127 05.0	67 05 16	50	X	X CTD
BURKE CHANNEL	19	52 19.1	127 05.0	67 05 23	50	X	X CTD
BURKE CHANNEL	20	52 19.9	127 08.6	67 04 08	50	X	X CTD
BURKE CHANNEL	20	52 19.9	127 08.6	67 04 13	50	X	X CTD
BURKE CHANNEL	20	52 19.9	127 08.6	67 04 14	50	X	X CTD
BURKE CHANNEL	20	52 19.9	127 08.6	67 04 19	50	X	X CTD
BURKE CHANNEL	20	52 19.9	127 08.6	67 04 21	50	X	X CTD
BURKE CHANNEL	20	52 19.9	127 08.6	67 04 26		X	X CTD
BURKE CHANNEL	20	52 19.9	127 08.6	67 04 27	50	X	X CTD
BURKE CHANNEL	20	52 19.9	127 08.6	67 05 01	50	X	X CTD
BURKE CHANNEL	20	52 19.9	127 08.6	67 05 06	50	X	X CTD

BURKE CHANNEL	20	52 19.9	127 08.6	67 05 08	50	X	X CTD
BURKE CHANNEL	20	52 19.9	127 08.6	67 05 16	50	X	X CTD
BURKE CHANNEL	20	52 19.9	127 08.6	67 05 23	50	X	X CTD
BURKE CHANNEL	21			67 04 19	50	X	X CTD
BURKE CHANNEL	21			67 04 21	50	X	X CTD
BURKE CHANNEL	21			67 04 27	50	X	X CTD
BURKE CHANNEL	21			67 05 23	50	X	X CTD
BURKE CHANNEL	22			67 04 19	50	X	X CTD
BURKE CHANNEL	22			67 04 21	50	X	X CTD
BURKE CHANNEL	22			67 04 27	50	X	X CTD
BURKE CHANNEL	22			67 05 23	50	X	X CTD
BURKE CHANNEL	23			67 04 19	50	X	X CTD
BURKE CHANNEL	23			67 04 21	50	X	X CTD
BURKE CHANNEL	23			67 04 27	50	X	X CTD
BURKE CHANNEL	23			67 05 23	50	X	X CTD
BURKE CHANNEL	23	52 19.6	127 10.5	67 04 13	50	X	X CTD
BURKE CHANNEL	23	52 19.6	127 10.5	67 04 24		X	X CTD
BURKE CHANNEL	24			67 04 21	50	X	X CTD
BURKE CHANNEL	24			67 05 23	50	X	X CTD
BURKE CHANNEL	25	52 18.9	127 10.6	67 04 21	50	X	X CTD
BURKE CHANNEL	25	52 18.9	127 10.6	67 05 13		X	X CTD
BURKE CHANNEL	25	52 18.9	127 10.6	67 05 23	50	X	X CTD
BURKE CHANNEL	26	52 18.2	127 12.8	67 04 13	50	X	X CTD
BURKE CHANNEL	26	52 18.2	127 12.8	67 04 24		X	X CTD
BURKE CHANNEL	26	52 19.1	127 11.4	67 04 21	50	X	X CTD
BURKE CHANNEL	26	52 19.1	127 11.4	67 05 13		X	X CTD
BURKE CHANNEL	26	52 19.1	127 11.4	67 05 23		X	X CTD
BURKE CHANNEL	26	52 19.1	127 11.4	67 05 23	50	X	X CTD
BURKE CHANNEL	27	52 11.3	127 26.3	67 04 24		X	X CTD
BURKE CHANNEL	27	52 19.5	127 12.4	67 05 13		X	X CTD
BURKE CHANNEL	28	52 07.9	127 36.7	67 04 24		X	X CTD
BURKE CHANNEL	28	52 17.7	127 13.4	67 05 12		X	X CTD
BURKE CHANNEL	29	51 58.0	127 40.3	67 04 24		X	X CTD
BURKE CHANNEL	29	52 14.8	127 20.4	67 05 12		X	X CTD
BURKE CHANNEL	30	51 54.4	127 54.7	67 04 24		X	X CTD
BURKE CHANNEL	30	52 12.0	127 28.4	67 05 12		X	X CTD
BURKE CHANNEL	31	52 25.2	127 13.5	67 04 24		X	X CTD
BURKE CHANNEL	31	52 25.5	127 13.5	67 05 13		X	X CTD
BURKE CHANNEL	32	52 25.2	127 12.4	67 04 24		X	X CTD
BURKE CHANNEL	32	52 25.5	127 12.4	67 05 13		X	X CTD
BURKE CHANNEL	33	52 25.2	127 11.3	67 04 24		X	X CTD
BURKE CHANNEL	33	52 25.2	127 11.3	67 05 13		X	X CTD
BURKE CHANNEL	34	52 23.4	127 13.8	67 04 24		X	X CTD
BURKE CHANNEL	36	52 17.8	127 14.0	67 05 23		X	X CTD
BURKE CHANNEL	37	52 14.7	127 20.4	67 05 23		X	X CTD
BURKE CHANNEL	38	52 12.3	127 27.0	67 05 23		X	X CTD
BURKE CHANNEL	39	52 09.4	127 33.0	67 05 23		X	X CTD
BURKE CHANNEL	40	52 07.1	127 37.5	67 05 23		X	X CTD
BURKE CHANNEL	41	52 02.2	127 40.0	67 05 23		X	X CTD
BURKE CHANNEL	43	51 56.8	127 47.0	67 05 23		X	X CTD
BURKE CHANNEL	44	51 56.1	127 51.4	67 05 23		X	X CTD
BURKE CHANNEL	45	51 55.6	127 50.9	67 05 23		X	X CTD
BURKE CHANNEL	46	51 55.1	127 50.5	67 05 23		X	X CTD
BURKE CHANNEL	47	51 56.0	127 54.6	67 05 23		X	X CTD
BURKE CHANNEL	48	51 56.0	127 55.9	67 05 23		X	X CTD
BURKE CHANNEL	49	51 56.0	127 57.4	67 05 23		X	X CTD
BURKE CHANNEL	50	51 45.7	127 59.6	67 05 23		X	X CTD
BURKE CHANNEL	51	51 45.7	127 56.1	67 05 23		X	X CTD
BURKE CHANNEL	52	51 45.7	127 52.9	67 05 23		X	X CTD
BURKE CHANNEL	D1	52 30.2	127 15.6	67 04 26		X	X CTD
BURKE CHANNEL	D1	52 30.2	127 15.6	67 05 13		X	X CTD
BURKE CHANNEL	D2	52 30.2	127 14.8	67 04 26		X	X CTD
BURKE CHANNEL	D2	52 30.2	127 14.8	67 05 13		X	X CTD
BURKE CHANNEL	D3	52 30.2	127 14.2	67 04 26		X	X CTD
BURKE CHANNEL	D3	52 30.2	127 14.2	67 05 13		X	X CTD
BURKE CHANNEL	D4	52 24.7	127 18.4	67 05 13		X	X CTD
BURKE CHANNEL	D5	52 25.1	127 18.9	67 05 13		X	X CTD
BURKE CHANNEL	D6	52 25.5	127 19.5	67 05 13		X	X CTD
BURKE CHANNEL	18N	52 19.9	127 05.0	67 05 13		X	X CTD
BURKE CHANNEL	18S	52 18.2	127 05.0	67 05 13		X	X CTD
BURKE CHANNEL	42a	51 57.9	127 42.3	67 05 23		X	X CTD
BURKE CHANNEL	42b	51 57.9	127 41.3	67 05 23		X	X CTD
BURKE CHANNEL	42c	51 57.9	127 40.4	67 05 23		X	X CTD
BURKE CHANNEL	LB1	52 26.4	127 15.9	67 05 05		X	X CTD
BURKE CHANNEL	LB2	52 26.7	127 15.2	67 05 05		X	X CTD
BURKE CHANNEL	LB3	52 27.0	127 14.5	67 05 05		X	X CTD
BURKE CHANNEL	SB1	52 15.9	126 57.2	67 04 26		X	X CTD
BURKE CHANNEL	SB2	52 16.1	126 56.7	67 04 26		X	X CTD
BURKE CHANNEL	SB3	52 16.5	126 56.3	67 04 26		X	X CTD
BURKE CHANNEL	SB4	52 10.8	126 53.1	67 04 26		X	X CTD
BURKE CHANNEL	SB5	52 09.4	126 50.1	67 04 26		X	X CTD
BURKE CHANNEL	SB5	52 09.4	126 50.1	67 04 26		X	X CTD
BURKE CHANNEL	SB6	52 04.3	126 43.6	67 04 26		X	X CTD

BOTTLE/CTD DATA SET NUMBER: 67-0026
YEAR:1967 VESSEL/AGENCY: T.T.THOMPSON

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
DIXON ENTRANCE		54	20.0	133	01.5	67	02	14	03	453	457		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 68-0011A
YEAR:1968 VESSEL/AGENCY: VECTOR

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
BELIZE/SEYMOUR	24	51	8.2	127	8.3	68	5	27	1	248	265		X	X	BOTT		
BELIZE/SEYMOUR	25	51	6.7	127	2.1	68	5	27	2	299	337		X	X	BOTT		
BELIZE/SEYMOUR	26	51	6.5	126	56.8	68	5	27	3	298	326		X	X	BOTT		
BELIZE/SEYMOUR	27	51	7.8	127	25.1	68	5	27	10	175	205		X	X	BOTT		
BELIZE/SEYMOUR	28	51	8.0	127	30.5	68	5	27	11	150	198		X	X	BOTT		
BELIZE/SEYMOUR	29	51	3.0	127	14.2	68	5	27	14	400	483		X	X	BOTT		
BELIZE/SEYMOUR	30	51	4.3	127	0.2	68	5	27	15	400	475		X	X	BOTT		
BELIZE/SEYMOUR	31	51	6.4	126	46.8	68	5	27	17	196	247		X	X	BOTT		
BELIZE/SEYMOUR	32	51	11.0	126	38.5	68	5	27	18	100	104		X	X	BOTT		
BELIZE/SEYMOUR	33	51	9.0	126	39.5	68	5	27	18	349	373		X	X	BOTT		
BELIZE/SEYMOUR	34	51	3.5	127	8.0	68	5	27	20	500	556		X	X	BOTT		
BELIZE/SEYMOUR	35	51	3.5	127	23.5	68	5	27	22	75	95		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 68-0011B
YEAR:1968 VESSEL/AGENCY: VECTOR

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
BELIZE INLET	10	51	7.0	127	3.5	68	7	16	15	300	337		X	X	BOTT		
SEYMOUR INLET	11	51	3.5	127	6.5	68	7	17	1	500	549		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 68-0012
YEAR:1968 VESSEL/AGENCY: CEDARWOOD

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
DIXON ENTRANCE	5	54	51.8	131	04.2	68	09	19		234	234		X	X			
DIXON ENTRANCE	6	54	41.7	131	09.2	68	09	19		258	238		X	X			
DIXON ENTRANCE	7	54	42.7	131	39.4	68	09	19		234	238		X	X			
DIXON ENTRANCE	8	54	43.9	131	42.5	68	09	19		302	420		X	X			
DIXON ENTRANCE	9	54	47.8	131	53.3	68	09	20		353	375		X	X			
DIXON ENTRANCE	10	54	58.0	131	48.0	68	09	20		395	309		X	X			

BOTTLE/CTD DATA SET NUMBER: 68-0022
YEAR:1968 VESSEL/AGENCY: LAYMORE

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
HECATE STRAIT	49	51	59.8	130	50.5	68	4	25	14	222	228	X		X	BISS		
HECATE STRAIT	50	52	11.0	130	33.0	68	4	25	16	250	265	X		X	BISS		
HECATE STRAIT	51	52	13.0	130	17.0	68	4	25	17	365	384	X		X	BISS		
HECATE STRAIT	52	52	24.0	129	55.0	68	4	25	19	170	182	X		X	BISS		
HECATE STRAIT	53	52	23.0	129	46.0	68	4	25	21	210	219	X		X	BISS		
HECATE STRAIT	54	52	28.0	129	34.0	68	4	25	22	120	126	X		X	BISS		
HECATE STRAIT	55	52	10.0	128	53.0	68	4	26	1	150	182	X		X	BISS		
HECATE STRAIT	56	52	4.0	129	8.0	68	4	26	3	140	149	X		X	BISS		
Q. C. SOUND	57	51	58.0	129	21.0	68	4	26	5	194	201	X		X	BISS		
Q. C. SOUND	58	51	51.0	129	35.0	68	4	26	6	160	246	X		X	BISS		
Q. C. SOUND	59	51	38.0	130	0.0	68	4	26	8	300	332	X		X	BISS		
Q. C. SOUND	60	51	31.0	130	17.0	68	4	26	11	750	1335	X		X	BISS		
Q. C. SOUND	71	51	15.0	129	11.0	68	4	28		267	274	X		X	BISS		
Q. C. SOUND	72	51	21.5	129	2.5	68	4	28	1	212	219	X		X	BISS		
Q. C. SOUND	73	51	27.5	128	49.5	68	4	28	2	60	58	X		X	BISS		
Q. C. SOUND	74	51	34.0	128	31.0	68	4	28	4	30	36	X		X	BISS		
Q. C. SOUND	75	51	40.0	128	26.0	68	4	28	5	132	138	X		X	BISS		
Q. C. SOUND	76	51	24.0	128	30.0	68	4	28	7	164	182	X		X	BISS		

BOTTLE/CTD DATA SET NUMBER: 68-0024
YEAR:1968 VESSEL/AGENCY: ENDEAVOUR

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
Q. C. SOUND	68	50	57.7	128	30.0	68	10	10	19	80	91	X		X	BISS		
Q. C. SOUND	69	51	0.0	129	0.0	68	10	10	20	70	82	X		X	BISS		
Q. C. SOUND	70	51	2.4	129	17.8	68	10	10	22	160	182	X		X	BISS		
Q. C. SOUND	92	51	36.8	130	0.0	68	10	12	23	300		X		X	BISS		
Q. C. SOUND	93	51	51.0	129	35.0	68	10	13	1	250		X		X	BISS		
Q. C. SOUND	94	51	57.7	129	21.0	68	10	13	2	200		X		X	BISS		
HECATE STRAIT	95	52	4.0	129	5.0	68	10	13	3	160		X		X	BISS		
HECATE STRAIT	96	52	10.0	128	55.0	68	10	13	4	160		X		X	BISS		
HECATE STRAIT	97	52	27.5	129	36.0	68	10	13	7	160	146	X		X	BISS		
HECATE STRAIT	98	52	23.0	129	48.0	68	10	13	8	210	219	X		X	BISS		
HECATE STRAIT	99	52	18.8	130	0.0	68	10	13	9	100	182	X		X	BISS		
HECATE STRAIT	100	52	12.5	130	16.5	68	10	13	11	300		X		X	BISS		
HECATE STRAIT	101	52	6.0	130	34.0	68	10	13	12	250	274	X		X	BISS		
HECATE STRAIT	102	52	20.1	130	36.1	68	10	13	15	160	170	X		X	BISS		
HECATE STRAIT	103	52	8.9	130	44.5	68	10	13	16	215	219	X		X	BISS		
Q. C. SOUND	104	51	59.2	130	47.4	68	10	13	17	210	219	X		X	BISS		

BOTTLE/CTD DATA SET NUMBER: 69-0018
YEAR:1969 VESSEL/AGENCY: VECTOR

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
B.C. INLETS	18	51	7.7	127	25.0	69	6	1	2	172	221	X		X	BOTT		
B.C. INLETS	19	51	7.9	127	17.1	69	6	1	3	246	274	X		X	BOTT		
B.C. INLETS	20	51	7.4	127	10.3	69	6	1	12	295	337	X		X	BOTT		
B.C. INLETS	21	51	7.1	126	56.5	69	6	1	13	295	335	X		X	BOTT		
B.C. INLETS	22	51	7.1	126	56.5	69	6	1	14	246	322	X		X	BOTT		
B.C. INLETS	23	51	2.8	127	14.2	69	6	1	18	394	479	X		X	BOTT		
B.C. INLETS	24	51	3.1	127	7.2	69	6	1	20	492	564	X		X	BOTT		

B.C. INLETS	25	51	4.5	127	0.0	69	6	1	21	492	622	X		X	BOTT		
B.C. INLETS	26	52	14.7	127	47.5	69	6	2	8	394	443	X		X	BOTT		
B.C. INLETS	27	52	21.8	127	27.6	69	6	2	11	394	457	X		X	BOTT		
B.C. INLETS	28	52	29.3	127	14.6	69	6	2	13	492	494	X		X	BOTT		
B.C. INLETS	29	52	38.4	127	0.6	69	6	2	15	393	490	X		X	BOTT		
B.C. INLETS	30	52	49.8	126	59.7	69	6	2	18	148	166	X		X	BOTT		
B.C. INLETS	31	52	19.4	127	3.0	69	6	2	22	443	503	X		X	BOTT		
B.C. INLETS	32	52	22.6	126	51.0	69	6	3		246	260	X		X	BOTT		
B.C. INLETS	33	52	16.1	127	16.6	69	6	3	14	492	581	X		X	BOTT		
B.C. INLETS	34	52	12.0	127	28.8	69	6	3	16	492	578	X		X	BOTT		
B.C. INLETS	35	52	8.2	127	35.0	69	6	3	18	393	439	X		X	BOTT		
B.C. INLETS	36	52	3.7	127	39.5	69	6	3	19	294	336	X		X	BOTT		
B.C. INLETS	37	51	54.1	127	56.8	69	6	3	22	295	355	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 69-0030
YEAR:1969 VESSEL/AGENCY: LAYMORE

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. SOUND	94	51	9.0	129	22.0	69	4	27	10	264	282	X		X	BISS		
Q. C. SOUND	95	51	15.3	129	10.5	69	4	27	11	272	276	X		X	BISS		
Q. C. SOUND	96	51	21.5	129	1.0	69	4	27	12	225	236	X		X	BISS		
Q. C. SOUND	97	51	27.5	128	50.0	69	4	27	13	105	112	X		X	BISS		
Q. C. SOUND	98	51	35.0	128	36.5	69	4	27	14	38	42	X		X	BISS		
Q. C. SOUND	99	51	40.0	128	25.5	69	4	27	15	140	143	X		X	BISS		
Q. C. SOUND	100	51	44.0	128	18.2	69	4	27	16	136	144	X		X	BISS		
HECATE STRAIT	101	52	14.8	128	48.0	69	4	28	2	200	207	X		X	BISS		
HECATE STRAIT	102	52	10.5	128	56.0	69	4	28	2	150	166	X		X	BISS		
HECATE STRAIT	103	52	5.0	129	8.5	69	4	28	3	130	143	X		X	BISS		
Q. C. SOUND	104	51	58.5	129	21.0	69	4	28	4	166	177	X		X	BISS		
Q. C. SOUND	105	51	51.5	129	35.0	69	4	28	6	244	254	X		X	BISS		
Q. C. SOUND	106	51	45.5	129	48.0	69	4	28	7	290	305	X		X	BISS		
Q. C. SOUND	107	51	40.0	129	59.5	69	4	28	8	300	329	X		X	BISS		
Q. C. SOUND	108	51	34.5	130	9.8	69	4	28	9	480	505	X		X	BISS		
Q. C. SOUND	109	51	32.4	130	14.2	69	4	28	10	500	521	X		X	BISS		
HECATE STRAIT	130	51	59.7	130	51.0	69	4	30	5	210	227	X		X	BISS		
HECATE STRAIT	131	52	5.7	130	35.0	69	4	30	7	220	227	X		X	BISS		
HECATE STRAIT	132	52	11.2	130	16.0	69	4	30	8	400	422	X		X	BISS		
HECATE STRAIT	133	52	15.8	130	5.0	69	4	30	9	175	181	X		X	BISS		
HECATE STRAIT	134	52	18.0	129	58.0	69	4	30	10	105	110	X		X	BISS		
HECATE STRAIT	135	52	20.0	129	52.0	69	4	30	10	184	187	X		X	BISS		
HECATE STRAIT	136	52	22.0	129	46.0	69	4	30	11	206	212	X		X	BISS		
HECATE STRAIT	137	52	25.0	129	40.0	69	4	30	12	190	196	X		X	BISS		
HECATE STRAIT	138	52	26.0	129	35.0	69	4	30	12	135	137	X		X	BISS		
HECATE STRAIT	139	52	49.4	129	51.0	69	4	30	15	150	155	X		X	BISS		
HECATE STRAIT	140	52	47.0	129	58.0	69	4	30	15	250	260	X		X	BISS		
HECATE STRAIT	141	52	44.5	130	5.0	69	4	30	16	250	256	X		X	BISS		
HECATE STRAIT	142	52	42.1	130	11.3	69	4	30	16	240	249	X		X	BISS		
HECATE STRAIT	143	52	37.2	130	27.0	69	4	30	18	168	170	X		X	BISS		
HECATE STRAIT	144	52	34.6	130	33.0	69	4	30	18	144	152	X		X	BISS		
HECATE STRAIT	145	52	32.0	130	41.0	69	4	30	19	105		X		X	BISS		
HECATE STRAIT	146	52	29.3	130	47.8	69	4	30	19	125	132	X		X	BISS		
HECATE STRAIT	147	52	27.9	130	53.0	69	4	30	21	107	113	X		X	BISS		
HECATE STRAIT	148	52	24.5	131	3.0	69	4	30	21	113	119	X		X	BISS		

BOTTLE/CTD DATA SET NUMBER: 69-0031
YEAR:1969 VESSEL/AGENCY: ENDEAVOUR

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. SOUND	79	51	44.0	128	18.0	69	10	10	20	130		X		X	BISS		
Q. C. SOUND	80	51	40.0	128	25.0	69	10	10	21	136		X		X	BISS		
Q. C. SOUND	81	51	35.0	128	37.0	69	10	10	22	40	40	X		X	BISS		
Q. C. SOUND	82	51	27.8	128	48.0	69	10	11		75	82	X		X	BISS		
Q. C. SOUND	83	51	21.0	129	2.0	69	10	11	1	154		X		X	BISS		

Q. C. SOUND	84	51	16.3	129	10.8	69	10	11	2	246	256	X		X	BISS		
Q. C. SOUND	85	51	10.0	129	22.0	69	10	11	3	280		X		X	BISS		
Q. C. SOUND	105	51	32.0	130	14.0	69	10	13		825	841	X		X	BISS		
Q. C. SOUND	106	51	34.9	130	10.2	69	10	13	1	475	502	X		X	BISS		
Q. C. SOUND	107	51	40.0	130	0.2	69	10	13	2	280	301	X		X	BISS		
Q. C. SOUND	108	51	45.0	129	48.0	69	10	13	3	300	309	X		X	BISS		
Q. C. SOUND	109	51	51.0	129	35.1	69	10	13	4	263		X		X	BISS		
Q. C. SOUND	110	51	58.0	129	21.0	69	10	13	6	200	204	X		X	BISS		
HECATE STRAIT	111	52	5.0	129	8.0	69	10	13	7	140	146	X		X	BISS		
HECATE STRAIT	112	52	10.0	128	56.0	69	10	13	8	160	164	X		X	BISS		
HECATE STRAIT	113	52	15.0	128	48.0	69	10	13	9	170	182	X		X	BISS		
HECATE STRAIT	114	52	26.0	129	35.0	69	10	13	12	170	182	X		X	BISS		
HECATE STRAIT	115	52	25.0	129	40.0	69	10	13	13	190	204	X		X	BISS		
HECATE STRAIT	116	52	22.0	129	45.0	69	10	13	14	198	214	X		X	BISS		
HECATE STRAIT	117	52	22.0	129	45.0	69	10	13	15	160	164	X		X	BISS		
HECATE STRAIT	118	52	18.0	129	57.8	69	10	13	16	136	137	X		X	BISS		
HECATE STRAIT	119	52	16.0	130	5.0	69	10	13	16	270		X		X	BISS		
HECATE STRAIT	120	52	11.0	130	15.0	69	10	13	18	420	438	X		X	BISS		
HECATE STRAIT	121	52	6.0	130	35.0	69	10	13	19	208	219	X		X	BISS		
HECATE STRAIT	122	52	0.0	130	51.0	69	10	13	21	200	210	X		X	BISS		
HECATE STRAIT	139	52	24.0	131	3.0	69	10	16	3	96	109	X		X	BISS		
HECATE STRAIT	140	52	28.0	130	55.0	69	10	16	4	96	100	X		X	BISS		
HECATE STRAIT	141	52	29.0	130	47.8	69	10	16	4	120	128	X		X	BISS		
HECATE STRAIT	142	52	32.0	130	41.0	69	10	16	5	90	96	X		X	BISS		
HECATE STRAIT	143	52	33.8	130	33.0	69	10	16	6	140	148	X		X	BISS		
HECATE STRAIT	144	52	37.0	130	27.0	69	10	16	7	150	155	X		X	BISS		
HECATE STRAIT	145	52	42.0	130	11.0	69	10	16	8	232	237	X		X	BISS		
HECATE STRAIT	146	52	45.0	130	6.0	69	10	16	9	250	256	X		X	BISS		
HECATE STRAIT	147	52	47.0	129	58.0	69	10	16	9	250	256	X		X	BISS		
HECATE STRAIT	148	52	50.0	129	50.0	69	10	16	10	232	237	X		X	BISS		

BOTTLE/CTD DATA SET NUMBER: 70-0020A
YEAR:1970 VESSEL/AGENCY: VECTOR

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
SEYMOUR INLET	12	51	2.8	127	10.0	70	5	24	15	475	549	X		X	BOTT		
BELIZE INLET	13	51	7.8	127	16.8	70	5	24	22	240	274	X		X	BOTT		
SMITH INLET	14	51	17.5	127	20.0	70	5	25	16	325	358	X		X	BOTT		
Q. C. SOUND	15	51	14.5	129	21.5	70	5	26	2	246	296	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 70-0020B
YEAR:1970 VESSEL/AGENCY: VECTOR

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
B.C. INLETS	21	51	54.1	127	56.8	70	6	21	20	300	344	X		X	BOTT		
B.C. INLETS	22	52	3.7	127	39.4	70	6	21	23	300	351	X		X	BOTT		
B.C. INLETS	23	52	8.0	127	34.7	70	6	22		399	446	X		X	BOTT		
B.C. INLETS	24	52	12.0	127	28.8	70	6	22	2	500	600	X		X	BOTT		
B.C. INLETS	25	52	16.0	127	16.5	70	6	22	4	500	578	X		X	BOTT		
B.C. INLETS	26	52	19.3	127	2.7	70	6	22	6	300	508	X		X	BOTT		
B.C. INLETS	27	52	2.6	126	51.1	70	6	22	7	250	315	X		X	BOTT		
B.C. INLETS	28	52	29.5	127	14.7	70	6	22	11	450	506	X		X	BOTT		
B.C. INLETS	29	52	38.4	127	0.5	70	6	22	13	400	483	X		X	BOTT		
B.C. INLETS	30	52	43.9	126	57.1	70	6	22	15	399	457	X		X	BOTT		
B.C. INLETS	31	52	50.0	126	59.6	70	6	22	16	160	163	X		X	BOTT		
B.C. INLETS	32	52	22.0	127	27.5	70	6	22	20	399	435	X		X	BOTT		
B.C. INLETS	33	52	14.6	127	47.3	70	6	22	23	400	431	X		X	BOTT		
B.C. INLETS	34	52	28.0	127	45.0	70	6	23	3	95	104	X		X	BOTT		
B.C. INLETS	35	52	27.7	127	51.3	70	6	23	4	140	154	X		X	BOTT		
B.C. INLETS	36	52	27.8	127	54.0	70	6	23	5	140	143	X		X	BOTT		
B.C. INLETS	37	52	22.4	127	52.4	70	6	23	6	180	192	X		X	BOTT		
B.C. INLETS	38	52	19.9	127	55.9	70	6	23	7	180	209	X		X	BOTT		
B.C. INLETS	39	52	24.8	128	16.3	70	6	23	13	300	314	X		X	BOTT		

B.C. INLETS	40	52	30.2	128	15.0	70	6	23	14	350	431	X		X	BOTT	
B.C. INLETS	41	52	36.1	128	13.4	70	6	23	15	450	519	X		X	BOTT	
B.C. INLETS	42	52	40.6	128	11.2	70	6	23	16	600	631	X		X	BOTT	
B.C. INLETS	43	52	44.9	128	8.4	70	6	23	18	500	519	X		X	BOTT	
B.C. INLETS	44	52	45.3	128	1.6	70	6	23	20	400	412	X		X	BOTT	
B.C. INLETS	45	52	44.5	127	54.8	70	6	23	21	175	181	X		X	BOTT	
B.C. INLETS	46	52	54.6	128	3.8	70	6	23	23	150	190	X		X	BOTT	
B.C. INLETS	47	52	50.6	128	10.1	70	6	24	1	250	270	X		X	BOTT	
B.C. INLETS	48	52	47.5	128	16.6	70	6	24	2	300	340	X		X	BOTT	
B.C. INLETS	49	52	48.6	128	23.2	70	6	24	3	400	444	X		X	BOTT	
B.C. INLETS	50	52	41.1	128	27.9	70	6	24	5	500	673	X		X	BOTT	
B.C. INLETS	51	52	28.5	128	26.5	70	6	24	7	600	699	X		X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 70-0020C
YEAR:1970 VESSEL/AGENCY: VECTOR

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
BELIZE INLET	15	51	07.8	127	16.8	70	7	25	6	375	388	X		X	BOTT	
SMITH INLET	18	51	18.0	127	17.7	70	7	26	17	340	358	X		X	BOTT	
Q. C. SOUND	19	51	14.5	129	21.5	70	7	27	3	250	298	X		X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 70-0031
YEAR:1970 VESSEL/AGENCY: LAYMORE

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
Q. C. SOUND	79	51	44.0	128	18.0	70	3	15	5	134	139	X		X	BISS	
Q. C. SOUND	80	51	39.3	128	26.0	70	3	15	6	136	146	X		X	BISS	
Q. C. SOUND	81	51	34.8	128	36.2	70	3	15	7	116	137	X		X	BISS	
Q. C. SOUND	82	51	28.0	128	50.0	70	3	15	8	20	27	X		X	BISS	
Q. C. SOUND	83	51	22.0	129	3.0	70	3	15	10	132	146	X		X	BISS	
Q. C. SOUND	84	51	16.0	129	14.2	70	3	15	11	80	197	X		X	BISS	
Q. C. SOUND	85	51	10.0	129	22.0	70	3	15	13	220	257	X		X	BISS	
HECATE STRAIT	93	52	0.0	130	51.0	70	3	17	21	211	237	X		X	BOTT	
HECATE STRAIT	94	52	6.2	130	31.3	70	3	17	23	320	321	X		X	BOTT	
HECATE STRAIT	95	52	11.8	130	18.4	70	3	18	1	425	438	X		X	BOTT	
HECATE STRAIT	96	52	18.4	129	57.5	70	3	18	4	105	109	X		X	BOTT	
HECATE STRAIT	97	52	23.0	129	47.5	70	3	18	6	197	219	X		X	BOTT	
HECATE STRAIT	98	52	27.8	129	32.0	70	3	18	7	85	87	X		X	BOTT	
HECATE STRAIT	99	52	15.0	128	48.0	70	3	18	16	200	210	X		X	BOTT	
HECATE STRAIT	100	52	10.0	128	58.8	70	3	18	19	150	164	X		X	BOTT	
HECATE STRAIT	101	52	5.0	129	8.3	70	3	18	21	147	148	X		X	BOTT	
Q. C. SOUND	102	51	56.0	129	26.0	70	3	18	23	196	210	X		X	BOTT	
Q. C. SOUND	103	51	50.0	129	37.8	70	3	19	21	220	223	X		X	BOTT	
Q. C. SOUND	104	51	43.5	129	54.5	70	3	19	23	313	325	X		X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 71-0019A
YEAR:1971 VESSEL/AGENCY: ENDEAVOUR

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
SMITH INLET	11	51	18.0	127	17.7	71	2	11	21	326	357		X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 71-0019B
YEAR:1971 VESSEL/AGENCY: VECTOR

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
SEYMOUR INLET	1	51	2.8	127	10.0	71	8	18	1	450	512		X	X	BOTT		
BELIZE INLET	2	51	7.8	127	13.6	71	8	18	12	300	388		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 71-0037
YEAR:1971 VESSEL/AGENCY: ENDEAVOUR

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q. C. SOUND	67	50	55.3	128	29.0	71	3	18	8	62	76	X		X	BISS		
Q. C. SOUND	68	51	7.2	128	26.5	71	3	18	9	150	164	X		X	BISS		
Q. C. SOUND	69	51	16.9	128	26.0	71	3	18	11	109	117	X		X	BISS		
Q. C. SOUND	70	51	30.0	128	20.1	71	3	18	12	158	164	X		X	BISS		
Q. C. SOUND	71	51	36.0	128	19.7	71	3	18	13	150	157	X		X	BISS		
Q. C. SOUND	72	51	30.0	128	32.0	71	3	18	15	183		X		X	BISS		
Q. C. SOUND	73	51	25.0	128	43.2	71	3	18	16	198	210	X		X	BISS		
Q. C. SOUND	74	51	21.0	128	53.2	71	3	18	17	219	228	X		X	BISS		
Q. C. SOUND	75	51	17.0	128	58.0	71	3	18	18	198	215	X		X	BISS		
Q. C. SOUND	76	51	11.5	129	14.5	71	3	18	19	217	219	X		X	BISS		
Q. C. SOUND	86	51	31.0	130	17.0	71	3	19	16	828	1316	X		X	BISS		
Q. C. SOUND	87	51	35.0	130	7.5	71	3	19	17	600	621	X		X	BISS		
Q. C. SOUND	88	51	38.4	129	57.0	71	3	19	18	282		X		X	BISS		
Q. C. SOUND	89	51	44.8	129	46.0	71	3	19	20	250	270	X		X	BISS		
Q. C. SOUND	90	51	50.0	129	35.2	71	3	19	23	170	173	X		X	BISS		
Q. C. SOUND	91	51	58.5	129	16.5	71	3	20	1	155	155	X		X	BISS		
HECATE STRAIT	92	52	1.5	129	9.5	71	3	20	2	171	173	X		X	BISS		
HECATE STRAIT	93	52	5.7	129	0.0	71	3	20	3	200	219	X		X	BISS		
HECATE STRAIT	94	52	11.0	128	48.0	71	3	20	4	208	219	X		X	BISS		

BOTTLE/CTD DATA SET NUMBER: 72-0025
YEAR:1972 VESSEL/AGENCY: VECTOR

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
B.C. INLETS	25	51	54.0	127	56.8	72	6	24	10	300	333	X		X	BOTT		
B.C. INLETS	26	51	59.0	127	40.7	72	6	24	13	200	243	X		X	BOTT		
B.C. INLETS	27	52	8.1	127	34.8	72	6	24	14	400	446	X		X	BOTT		
B.C. INLETS	28	52	12.5	127	28.2	72	6	24	16	500	600	X		X	BOTT		
B.C. INLETS	29	52	15.9	127	16.7	72	6	24	18	499	593	X		X	BOTT		
B.C. INLETS	30	52	19.4	127	2.9	72	6	24	20	400	523	X		X	BOTT		
B.C. INLETS	31	52	22.7	126	50.9	72	6	24	23	249	302	X		X	BOTT		
B.C. INLETS	32	52	9.3	126	49.6	72	6	25	2	250	294	X		X	BOTT		
B.C. INLETS	33	52	29.4	127	14.6	72	6	25	6	450	510	X		X	BOTT		
B.C. INLETS	34	52	38.3	127	0.6	72	6	25	8	400	497	X		X	BOTT		
B.C. INLETS	35	52	49.8	126	59.7	72	6	25	11	150	168	X		X	BOTT		
B.C. INLETS	36	52	22.0	127	27.6	72	6	25	17	399	441	X		X	BOTT		
B.C. INLETS	37	52	14.8	127	47.2	72	6	25	20	400	439	X		X	BOTT		
B.C. INLETS	38	52	28.0	127	45.0	72	6	26	1	94	104	X		X	BOTT		
B.C. INLETS	39	52	29.8	127	51.3	72	6	26	2	145	155	X		X	BOTT		
B.C. INLETS	40	52	27.7	127	54.1	72	6	26	3	150	176	X		X	BOTT		
B.C. INLETS	41	52	22.5	127	52.5	72	6	26	4	180	198	X		X	BOTT		
B.C. INLETS	42	52	19.8	127	56.0	72	6	26	6	180	190	X		X	BOTT		
B.C. INLETS	43	52	30.2	128	15.0	72	6	26	11	400	413	X		X	BOTT		
B.C. INLETS	44	52	36.1	128	13.4	72	6	26	13	450	523	X		X	BOTT		

B.C. INLETS	45	52 40.5	128 11.3	72	6	26	15	599	633	X		X	BOTT	
B.C. INLETS	46	52 45.4	128 1.9	72	6	26	17	350	421	X		X	BOTT	
B.C. INLETS	47	52 44.4	127 54.7	72	6	26	18	185	192	X		X	BOTT	
B.C. INLETS	48	52 54.5	128 4.3	72	6	26	20	150	199	X		X	BOTT	
B.C. INLETS	49	52 47.4	128 16.8	72	6	26	23	300	338	X		X	BOTT	
B.C. INLETS	50	52 48.6	128 23.2	72	6	27		400	443	X		X	BOTT	
B.C. INLETS	51	52 41.1	128 27.9	72	6	27	2	500	673	X		X	BOTT	
B.C. INLETS	52	52 29.0	128 26.5	72	6	27	5	599	680	X		X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 72-0026
YEAR:1972 VESSEL/AGENCY: LAYMORE,PEI

AREA	STN	LAT	LON	DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT NO HR
		DEG MIN	DEG MIN	YR	MO	DY	HR			C	S	T		
KITIMAT		54 0.	128 40.	72	06					X			BOTT	
KITIMAT		54 0.	128 40.	72	07					X			BOTT	
KITIMAT		54 0.	128 40.	72	08					X			BOTT	

BOTTLE/CTD DATA SET NUMBER: 72-0036B
YEAR:1972 VESSEL/AGENCY: LAYMORE

AREA	STN	LAT	LON	DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT NO HR
		DEG MIN	DEG MIN	YR	MO	DY	HR			C	S	T		
COUSINS INLET	0-10	52 21.4	127 42.4	72	12	03		45	46	X			BOTT	
COUSINS INLET	0-11	52 21.4	127 41.7	72	12	03		26	27	X			BOTT	
COUSINS INLET	0-12	52 21.1	127 41.7	72	12	03		27	28	X			BOTT	
COUSINS INLET	0-13	52 20.1	127 41.7	72	12	03		30	31	X			BOTT	
COUSINS INLET	0-14	52 21.5	127 41.2	72	12	03		10	11	X			BOTT	
COUSINS INLET	0-3			72	12	03		490	491	X			BOTT	
COUSINS INLET	0-3B	52 16.8	127 46.0	72	12	03		110	111	X			BOTT	
COUSINS INLET	0-4	52 17.2	127 45.8	72	12	03		75	76	X			BOTT	
COUSINS INLET	0-4A	52 17.5	127 45.8	72	12	03		91	92	X			BOTT	
COUSINS INLET	0-5	52 18.9	127 45.2	72	12	03		74	75	X			BOTT	
COUSINS INLET	0-7	52 20.7	127 43.9	72	12	03		70	71	X			BOTT	
COUSINS INLET	0-8	52 21.3	127 43.2	72	12	03		50	51	X			BOTT	
COUSINS INLET	0-9	52 21.4	127 42.9	72	12	03		57	58	X			BOTT	

BOTTLE/CTD DATA SET NUMBER: 73-0024
YEAR:1973 VESSEL/AGENCY: LAYMORE,PEI

AREA	STN	LAT	LON	DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT NO HR
		DEG MIN	DEG MIN	YR	MO	DY	HR			C	S	T		
KITIMAT		54 00.	128 40.	73	06	*				X			BOTT	

* Nominal date & location

BOTTLE/CTD DATA SET NUMBER: 73-0029
YEAR:1973 VESSEL/AGENCY: LAYMORE

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
SWANSON BAY	A	53	00.4	128	31.2	73	04	02		0	191			X	BUCK		
SWANSON BAY	B	53	00.3	128	31.1	73	04	02		0	146			X	BUCK		
SWANSON BAY	C	53	00.3	128	30.9	73	04	02		0	155			X	BUCK		
SWANSON BAY	D	53	00.6	128	31.2	73	04	02		0	182			X	BUCK		
SWANSON BAY	E	53	00.5	128	31.1	73	04	02		0	85			X	BUCK		
SWANSON BAY	F	53	00.5	128	30.9	73	04	02		0	96			X	BUCK		
SWANSON BAY	G	53	00.4	128	30.8	73	04	02		0	66			X	BUCK		
SWANSON BAY	H	53	00.7	128	30.9	73	04	02		0	63			X	BUCK		
SWANSON BAY	I	53	00.6	128	30.8	73	04	02		0	61			X	BUCK		
SWANSON BAY	J	53	00.6	128	30.6	73	04	02		0	61			X	BUCK		
SWANSON BAY	K	53	00.9	128	30.8	73	04	02		0	46			X	BUCK		
SWANSON BAY	L	53	00.8	128	30.6	73	04	02		0	30			X	BUCK		
SWANSON BAY	M	53	00.8	128	30.5	73	04	02		0	38			X	BUCK		
SWANSON BAY	N	53	00.7	128	30.3	73	04	02		0	31			X	BUCK		

BOTTLE/CTD DATA SET NUMBER: 73-0031A
YEAR:1973 VESSEL/AGENCY: POLL.CTL.BR.

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
PRINCE RUPERT	L1	54	19.7	130	17.4	73	04	09	10	0		X		X	BECK		
PRINCE RUPERT	L2	54	19.3	130	18.5	73	04	09	10	0		X		X	BECK		
PRINCE RUPERT	L3	54	18.7	130	19.4	73	04	09	11	0		X		X	BECK		
PRINCE RUPERT	L4	54	18.3	130	20.2	73	04	09	11	0		X		X	BECK		
PRINCE RUPERT	L5	54	17.5	130	20.6	73	04	09	11	0		X		X	BECK		
PRINCE RUPERT	L6	54	13.7	130	19.1	73	04	11	10	0		X		X	BECK		
PRINCE RUPERT	L7	54	13.8	130	19.3	73	04	11	10	0		X		X	BECK		
PRINCE RUPERT	L8	54	13.6	130	19.3	73	04	11	10	0		X		X	BECK		
PRINCE RUPERT	L9	54	13.5	130	19.3	73	04	11	10	0		X		X	BECK		
PRINCE RUPERT	P1	54	20.6	130	16.6	73	04	09	09	30		X		X	BECK		
PRINCE RUPERT	P2	54	18.4	130	21.1	73	04	09	13	30		X		X	BECK		
PRINCE RUPERT	P3	54	16.7	130	21.2	73	04	10	14	30		X		X	BECK		
PRINCE RUPERT	P4	54	13.7	130	20.4	73	04	11	09	30		X		X	BECK		
PRINCE RUPERT	P5	54	13.4	130	21.75	73	04	11	09	30		X		X	BECK		
PRINCE RUPERT	P9	54	12.0	130	17.1	73	04	10	13	10		X		X	BECK		
PRINCE RUPERT	P11	54	13.4	130	17.4	73	04	10	13	10		X		X	BECK		
PRINCE RUPERT	P14	54	14.4	130	17.9	73	04	10	12	10		X		X	BECK		
PRINCE RUPERT	P15	54	14.7	130	16.3	73	04	10	11	30		X		X	BECK		
PRINCE RUPERT	P18	54	15.35	130	15.6	73	04	10	11	20		X		X	BECK		
PRINCE RUPERT	P20	54	16.05	130	14.3	73	04	10	10	30		X		X	BECK		

BOTTLE/CTD DATA SET NUMBER: 73-0031B
YEAR:1973 VESSEL/AGENCY: POLL.CTL.BR.

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
PRINCE RUPERT	L1	54	19.7	130	17.4	73	07	10	12	0		X		X	BECK		
PRINCE RUPERT	L2	54	19.3	130	18.5	73	07	10	12	0		X		X	BECK		
PRINCE RUPERT	L3	54	18.7	130	19.4	73	07	10	12	0		X		X	BECK		
PRINCE RUPERT	L4	54	18.3	130	20.2	73	07	10	13	0		X		X	BECK		
PRINCE RUPERT	L5	54	17.5	130	20.6	73	07	10	13	0		X		X	BECK		
PRINCE RUPERT	P1	54	20.6	130	16.6	73	07	10	11	30		X		X	BECK		
PRINCE RUPERT	P2	54	18.4	130	21.1	73	07	10	14	30		X		X	BECK		

PRINCE RUPERT	P3	54	16.7	130	21.2	73	07	10	13	30		X		X	BECK		
PRINCE RUPERT	P4	54	13.7	130	20.4	73	07	12	09	30		X		X	BECK		
PRINCE RUPERT	P5	54	13.4	130	21.75	73	07	12	09	30		X		X	BECK		
PRINCE RUPERT	P7	54	11.7	130	19.4	73	07	11	13	30		X		X	BECK		
PRINCE RUPERT	P9	54	12.0	130	17.1	73	07	11	12	10		X		X	BECK		
PRINCE RUPERT	P11	54	13.4	130	17.4	73	07	11	11	10		X		X	BECK		
PRINCE RUPERT	P14	54	14.4	130	17.9	73	07	11	11	10		X		X	BECK		
PRINCE RUPERT	P15	54	14.7	130	16.3	73	07	11	10	30		X		X	BECK		
PRINCE RUPERT	P18	54	15.35	130	15.6	73	07	11	10	20		X		X	BECK		
PRINCE RUPERT	P20	54	16.05	130	14.3	73	07	11	09	30		X		X	BECK		

BOTTLE/CTD DATA SET NUMBER: 73-0031C
YEAR:1973 VESSEL/AGENCY: POLL.CTL.BR.

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
PRINCE RUPERT	L1	54	19.7	130	17.4	73	10	24	12	0		X		X	BECK		
PRINCE RUPERT	L2	54	19.3	130	18.5	73	10	24	12	0		X		X	BECK		
PRINCE RUPERT	L3	54	18.7	130	19.4	73	10	24	12	0		X		X	BECK		
PRINCE RUPERT	L4	54	18.3	130	20.2	73	10	24	12	0		X		X	BECK		
PRINCE RUPERT	L5	54	17.5	130	20.6	73	10	24	13	0		X		X	BECK		
PRINCE RUPERT	P1	54	20.6	130	16.6	73	10	24	11	30		X		X	BECK		
PRINCE RUPERT	P2	54	18.4	130	21.1	73	10	25	10	30		X		X	BECK		
PRINCE RUPERT	P3	54	16.7	130	21.2	73	10	24	13	30		X		X	BECK		
PRINCE RUPERT	P4	54	13.7	130	20.4	73	10	24	13	30		X		X	BECK		
PRINCE RUPERT	P5	54	13.4	130	21.75	73	10	24	14	30		X		X	BECK		
PRINCE RUPERT	P7	54	11.7	130	19.4	73	10	24	14	30		X		X	BECK		
PRINCE RUPERT	P9	54	12.0	130	17.1	73	10	25	10	10		X		X	BECK		
PRINCE RUPERT	P11	54	13.4	130	17.4	73	10	25	09	10		X		X	BECK		
PRINCE RUPERT	P14	54	14.4	130	17.9	73	10	25	09	10		X		X	BECK		
PRINCE RUPERT	P15	54	14.7	130	16.3	73	10	24	09	30		X		X	BECK		
PRINCE RUPERT	P18	54	15.35	130	15.6	73	10	24	10	20		X		X	BECK		
PRINCE RUPERT	P20	54	16.05	130	14.3	73	10	24	10	30		X		X	BECK		

BOTTLE/CTD DATA SET NUMBER: 73-0049
YEAR:1973 VESSEL/AGENCY: FISH.&OC.

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
N.BENTINCK ARM		52	23.3	126	47.3	73	10	26		60			X	X			

BOTTLE/CTD DATA SET NUMBER: 74-0040A
YEAR:1974 VESSEL/AGENCY: EPS

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
PORPOISE HARB.	FB-1	54	11.75	130	18.78	74	07	09	19	15			X	X	BOTT		
PORPOISE HARB.	P-12	54	13.23	130	17.64	74	07	09	20	20			X	X	BOTT		
PORPOISE HARB.	P-17	54	17.10	130	16.80	74	07	10	02	25			X	X	BOTT		
PORPOISE HARB.	P-18	54	14.21	130	18.24	74	07	09	22	15			X	X	BOTT		
PORPOISE HARB.	P-20	54	12.13	130	18.32	74	07	09	19	24			X	X	BOTT		
PORPOISE HARB.	PH-1	54	14.69	130	18.24	74	07	09	23	15			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 74-0040B
YEAR:1974 VESSEL/AGENCY: EPS

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
CHATHAM SOUND	CS-1	54	12.25	130	20.02	74	08	06	19	10			X	X	BOTT		
CHATHAM SOUND	CS-1	54	12.25	130	20.02	74	08	08	04	10			X	X	BOTT		
CHATHAM SOUND	CS-2	54	13.15	130	20.3	74	08	06	20	10			X	X	BOTT		
CHATHAM SOUND	CS-2	54	13.15	130	20.3	74	08	08	04	10			X	X	BOTT		
CHATHAM SOUND	CS-3	54	14.01	130	20.3	74	08	06	22	10			X	X	BOTT		
CHATHAM SOUND	CS-3	54	14.01	130	20.3	74	08	08	02	10			X	X	BOTT		
CHATHAM SOUND	CS-4	54	14.7	130	19.79	74	08	06	22	20			X	X	BOTT		
CHATHAM SOUND	CS-4	54	14.7	130	19.79	74	08	08	01	20			X	X	BOTT		
CHATHAM SOUND	CS-5	54	13.14	130	20.92	74	08	06	20	30			X	X	BOTT		
CHATHAM SOUND	CS-5	54	13.14	130	20.92	74	08	08	04	30			X	X	BOTT		
CHATHAM SOUND	CS-6	54	14.0	130	20.92	74	08	06	23	40			X	X	BOTT		
CHATHAM SOUND	CS-6	54	14.0	130	20.92	74	08	08	04	40			X	X	BOTT		
CHATHAM SOUND	CS-7	54	14.68	130	20.99	74	08	06	22	40			X	X	BOTT		
CHATHAM SOUND	CS-7	54	14.68	130	20.99	74	08	08	01	40			X	X	BOTT		
PORPOISE HARB.	DC-1	54	14.15	130	20.02	74	08	06	21	2			X	X	BOTT		
PORPOISE HARB.	DC-1	54	14.15	130	20.02	74	08	08	02	2			X	X	BOTT		
PORPOISE HARB.	PB-1	54	11.79	130	18.78	74	08	07	18	15			X	X	BOTT		
PORPOISE HARB.	P-12	54	13.23	130	17.64	74	08	07	19	15			X	X	BOTT		
PORPOISE HARB.	P-18	54	14.21	130	18.24	74	08	07	20	15			X	X	BOTT		
PORPOISE HARB.	P-20	54	12.13	130	18.32	74	08	07	19	20			X	X	BOTT		
PORPOISE HARB.	PH-1	54	14.69	130	18.24	74	08	07	20	10			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 74-0041
YEAR:1974 VESSEL/AGENCY: LAYMORE

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
COUSINS INLET	O-10	52	21.4	127	42.4	74	08	01		45	46	X		X	BOTT		
COUSINS INLET	O-12	52	21.1	127	41.7	74	08	01		27	28	X		X	BOTT		
COUSINS INLET	O-13	52	20.1	127	41.7	74	08	01		30	31	X		X	BOTT		
COUSINS INLET	O-3					74	08	01		490	491	X		X	BOTT		
COUSINS INLET	O-4	52	17.2	127	45.8	74	08	01		75	76	X		X	BOTT		
COUSINS INLET	O-5	52	18.9	127	45.2	74	08	01		74	75	X		X	BOTT		
COUSINS INLET	O-6	52	19.9	127	44.5	74	08	01				X		X	BOTT		
COUSINS INLET	O-7	52	20.7	127	43.9	74	08	01		70	71	X		X	BOTT		
COUSINS INLET	O-9	52	21.4	127	42.9	74	08	01		57	58	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 74-0042
YEAR:1974 VESSEL/AGENCY: DOBROCKY

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
ALICE ARM	Z-7					74	06	24		250			X	X			
ALICE ARM	F-15	55	27.02	129	38.05	74	06	27		300	371		X	X			

BOTTLE/CTD DATA SET NUMBER: 74-0043
YEAR:1974 VESSEL/AGENCY: DOBROCKY

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
PRINCE RUPERT	P-0	54	23.2	130	15.0	74	10	22		45		X		X	HYDR		
PRINCE RUPERT	P-1	54	20.3	130	16.9	74	10	22		50		X		X	HYDR		
PRINCE RUPERT	P-2	54	18.4	130	21.5	74	10	22		45		X		X	HYDR		
PRINCE RUPERT	P-3	54	17.5	130	21.9	74	10	22		40		X		X	HYDR		
PRINCE RUPERT	P-4	54	14.9	130	20.8	74	10	22		40		X		X	HYDR		
PRINCE RUPERT	P-5	54	13.3	130	24.0	74	10	22		45		X		X	HYDR		
PRINCE RUPERT	P-7	54	12.5	130	20.0	74	10	22		30		X		X	HYDR		
PORT SIMPSON	S-1	54	35.4	130	29.0	74	11	06		75		X		X	HYDR		
PORT SIMPSON	S-2	54	35.4	130	27.0	74	11	06		45		X		X	HYDR		
PORT SIMPSON	S-3	54	35.0	130	25.0	74	11	06		40		X		X	HYDR		

BOTTLE/CTD DATA SET NUMBER: 74-0044
YEAR:1974 VESSEL/AGENCY: CAN.CELLULOSE

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
MORSE BASIN	1	54	16.7	130	14.7	74	02			45			X	X	BOTT		
MORSE BASIN	2	54	15.4	130	15.2	74	02			15			X	X	BOTT		
WAINWRIGHT BAS	3	54	15.0	130	16.9	74	02			50			X	X	BOTT		
PORPOISE HARB	4	54	14.8	130	18.4	74	02			15			X	X	BOTT		
PORPOISE HARB	5	54	13.5	130	17.9	74	02			20			X	X	BOTT		
PORPOISE HARB	6	54	12.8	130	17.4	74	02			1			X	X	BOTT		
PORPOISE HARB	7	54	12.7	130	17.7	74	02			20			X	X	BOTT		
PORPOISE CH	8	54	12.0	130	18.2	74	02			25			X	X	BOTT		
CHATHAM SOUND	9	54	12.8	130	20.0	74	02			40			X	X	BOTT		
CHATHAM SOUND	10	54	14.0	130	20.0	74	02			20			X	X	BOTT		
CHATHAM SOUND	11	54	14.0	130	22.1	74	02			30			X	X	BOTT		
CHATHAM SOUND	12	54	15.0	130	21.3	74	02			40			X	X	BOTT		
CHATHAM SOUND	13	54	17.1	130	21.8	74	02			40			X	X	BOTT		

* 13 stations sampled monthly, Feb. 1974 to present.

BOTTLE/CTD DATA SET NUMBER: 74-0050A
YEAR:1974 VESSEL/AGENCY: EPS

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
PORPOISE HBR	0-5	52	18.5	127	45.4	74	06	11		75			X	X	BOTT		
PORPOISE HBR	0-6	52	19.8	127	44.3	74	06	11		65			X	X	BOTT		
PORPOISE HBR	0-7	52	20.8	127	44.0	74	06	11		55			X	X	BOTT		
PORPOISE HBR	0-9	52	21.1	127	42.9	74	06	11		55			X	X	BOTT		
PORPOISE HBR	0-10	52	21.1	127	42.3	74	06	11		45			X	X	BOTT		
PORPOISE HBR	0-12	52	21.0	127	41.6	74	06	11		30			X	X	BOTT		
PORPOISE HBR	0-6A	52	20.3	127	44.4	74	06	11		65			X	X	BOTT		
PORPOISE HBR	0-7A	52	21.1	127	43.5	74	06	11		53			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 74-0050B
YEAR:1974 VESSEL/AGENCY: EPS

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
PORPOISE HBR	0-5	52	18.5	127	45.4	74	09	04		75			X	X	BOTT		
PORPOISE HBR	0-6	52	19.8	127	44.3	74	09	04		65			X	X	BOTT		
PORPOISE HBR	0-7	52	20.8	127	44.0	74	09	04		55			X	X	BOTT		
PORPOISE HBR	0-9	52	21.1	127	42.9	74	09	04		50			X	X	BOTT		
PORPOISE HBR	0-10	52	21.1	127	42.3	74	09	04		45			X	X	BOTT		
PORPOISE HBR	0-12	52	21.0	127	41.6	74	09	04		25			X	X	BOTT		
PORPOISE HBR	0-6A	52	20.3	127	44.4	74	09	04		62			X	X	BOTT		
PORPOISE HBR	0-7A	52	21.1	127	43.5	74	09	04		50			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 75-0061
YEAR:1975 VESSEL/AGENCY: EPS

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO	DEPTH	MEAS				HR	
										(M)	(M)	C	S	T			
KITIMAT ARM	K-1	53	59.0	128	41.0	75	06	25		125	137		X	X	BOTT		
KITIMAT ARM	K-2	53	59.0	128	40.0	75	06	25		125	134		X	X	BOTT		
KITIMAT ARM	K-3	53	58.0	128	41.0	75	06	25		150	176		X	X	BOTT		
KITIMAT ARM	K-4	53	58.0	128	40.0	75	06	25		100	168		X	X	BOTT		
KITIMAT ARM	K-5	53	56.5	128	41.0	75	06	25		175	205		X	X	BOTT		
KITIMAT ARM	K-6	53	55.0	128	41.5	75	06	25		200	220		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 75-0063
YEAR:1975 VESSEL/AGENCY: LAYMORE

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO	DEPTH	MEAS				HR	
										(M)	(M)	C	S	T			
COOLIDGE PT		52	21.4	127	42.9	75	11	19				X		X	BOTT		
OCEAN FALLS		52	21.5	127	43.0	75	11	19				X		X	BOTT		
Q.CH.SD.INLETS	J	53	00.6	128	30.6	75	11			67	68	X		X	BOTT		
Q.CH.SD.INLETS	M	53	00.8	128	30.5	75	11			39	40	X		X	BOTT		
Q.CH.SD.INLETS	O-7	52	20.7	127	43.9	75	11	19		70	71	X		X	BOTT		
Q.CH.SD.INLETS	O-12	52	21.1	127	41.7	75	11	19		27	28	X		X	BOTT		
Q.CH.SD.INLETS	O-14	52	21.5	127	41.2	75	11	19		10	11	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 75-0064
YEAR:1975 VESSEL/AGENCY: DOBROCKY

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO	DEPTH	MEAS				HR	
										(M)	(M)	C	S	T			
ALICE ARM	F-15	55	27.02	129	38.05	75	07	18		300	371		X	X			

BOTTLE/CTD DATA SET NUMBER: 76-0050
YEAR:1976 VESSEL/AGENCY: DOBROCKY

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO	DEPTH	MEAS				HR	
										(M)	(M)	C	S	T			
ALICE ARM	E4	55	27.32	129	29.65	76	08	18	22	100	110	X		X	BOTT		
ALICE ARM	Z3	55	30.18	129	45.90	76	08	17	22	300	322	X		X	BOTT		
ALICE ARM	F15	55	27.02	129	38.05	76	08	18	18	300	371	X		X	BOTT		
ALICE ARM	OI1	55	21.80	129	45.37	76	08	18	02	175	219	X		X	BOTT		
ALICE ARM	G9.5	55	26.75	129	32.30	76	08	18	20	200	230	X		X	BOTT		
ALICE ARM	I17.5	55	26.00	129	40.05	76	08	18	16	200	249	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 76-0062
YEAR:1976 VESSEL/AGENCY: DOBROCKY

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
ALICE ARM	E4	55	27.32	129	29.65	76	09	21	15	100	110	X		X	BOTT		
ALICE ARM	Z3	55	30.18	129	45.90	76	09	22	00	300	322	X		X	BOTT		
ALICE ARM	F15	55	27.02	129	38.05	76	09	21	18	300	371	X		X	BOTT		
ALICE ARM	OI1	55	21.80	129	45.37	76	09	22	02	200	219	X		X	BOTT		
ALICE ARM	G9.5	55	26.75	129	32.30	76	09	21	16	200	230	X		X	BOTT		
ALICE ARM	I17.5	55	26.00	129	40.05	76	09	21	19	200	249	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 76-0063
YEAR:1976 VESSEL/AGENCY: DOBROCKY

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
ALICE ARM	E4	55	27.32	129	29.65	76	12	09	18	75	110	X		X	BOTT		
ALICE ARM	Z3	55	30.18	129	45.90	76	12	10	20	300	322	X		X	BOTT		
ALICE ARM	F15	55	27.02	129	38.05	76	12	09	22	300	371	X		X	BOTT		
ALICE ARM	OI1	55	21.80	129	45.37	76	12	10	23	200	219	X		X	BOTT		
ALICE ARM	G9.5	55	26.75	129	32.30	76	12	09	19	200	230	X		X	BOTT		
ALICE ARM	I17.5	55	26.00	129	40.05	76	12	09	23	200	249	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 77-0042A
YEAR:1977 VESSEL/AGENCY: SEALION

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
KITIMAT	CTD01	53	23.85	129	11.9	77	07	11	12	400		X		X	GLDL		
KITIMAT	CTD01	53	23.85	129	11.9	77	07	13	21	401		X		X	GLDL		
KITIMAT	CTD01	53	23.85	129	11.9	77	07	15	20	363		X		X	GLDL		
KITIMAT	CTD02	53	22.6	129	08.85	77	07	11	13	416		X		X	GLDL		
KITIMAT	CTD02	53	22.6	129	08.85	77	07	14	12	354		X		X	GLDL		
KITIMAT	CTD03	53	20.65	129	18.0	77	07	11	14	120		X		X	GLDL		
KITIMAT	CTD03	53	20.65	129	18.0	77	07	11	22	482		X		X	GLDL		
KITIMAT	CTD03	53	20.65	129	18.0	77	07	13	23	500		X		X	GLDL		
KITIMAT	CTD04	53	25.2	129	24.7	77	07	11	15	284		X		X	GLDL		
KITIMAT	CTD05	53	40.3	129	46.1	77	07	11	18	100		X		X	GLDL		
KITIMAT	CTD06	53	13.2	129	25.2	77	07	12	00	484		X		X	GLDL		
KITIMAT	CTD06	53	13.2	129	25.2	77	07	14	00	497		X		X	GLDL		
KITIMAT	CTD07	53	11.2	129	39.0	77	07	12	02	174		X		X	GLDL		
KITIMAT	CTD08	52	54.4	129	28.9	77	07	12	05	268		X		X	GLDL		
KITIMAT	CTD09	53	00.45	129	12.65	77	07	12	08	349		X		X	GLDL		
KITIMAT	CTD09	53	00.45	129	12.65	77	07	14	03	344		X		X	GLDL		
KITIMAT	CTD09	53	00.45	129	12.65	77	07	14	04	367		X		X	GLDL		
KITIMAT	CTD10	53	06.3	129	21.6	77	07	12	10	502		X		X	GLDL		
KITIMAT	CTD10	53	06.3	129	21.6	77	07	14	01	495		X		X	GLDL		
KITIMAT	CTD11	53	06.1	129	07.0	77	07	12	12	480		X		X	GLDL		
KITIMAT	CTD11	53	06.1	129	07.0	77	07	14	09	480		X		X	GLDL		
KITIMAT	CTD12	53	11.9	129	07.0	77	07	12	13	497		X		X	GLDL		
KITIMAT	CTD12	53	11.9	129	07.0	77	07	14	10	495		X		X	GLDL		
KITIMAT	CTD13	53	18.38	129	05.2	77	07	12	14	499		X		X	GLDL		
KITIMAT	CTD13	53	18.38	129	05.2	77	07	15	21	472		X		X	GLDL		
KITIMAT	CTD14	53	18.40	128	53.90	77	07	12	15	366		X		X	GLDL		
KITIMAT	CTD14	53	18.40	128	53.90	77	07	15	22	290		X		X	GLDL		
KITIMAT	CTD14	53	18.40	128	53.90	77	07	15	23	280		X		X	GLDL		
KITIMAT	CTD15	53	26.05	128	55.40	77	07	12	16	387		X		X	GLDL		

KITIMAT	CTD16	53	27.80	129	04.00	77	07	12	20	184		X		X	GLDL		
KITIMAT	CTD16	53	27.80	129	04.00	77	07	14	14	205		X		X	GLDL		
KITIMAT	CTD17	53	32.95	128	54.75	77	07	12	21	203		X		X	GLDL		
KITIMAT	CTD17	53	32.95	128	54.75	77	07	14	15	221		X		X	GLDL		
KITIMAT	CTD18	53	34.75	128	48.40	77	07	12	22	152		X		X	GLDL		
KITIMAT	CTD18	53	34.75	128	48.40	77	07	15	03	153		X		X	GLDL		
KITIMAT	CTD19	53	29.52	128	40.86	77	07	12	23	174		X		X	GLDL		
KITIMAT	CTD19	53	29.52	128	40.86	77	07	15	02	176		X		X	GLDL		
KITIMAT	CTD20	53	25.20	128	32.70	77	07	13	01	200		X		X	GLDL		
KITIMAT	CTD20	53	25.20	128	32.70	77	07	15	00	222		X		X	GLDL		
KITIMAT	CTD21	53	42.37	128	48.30	77	07	13	04	282		X		X	GLDL		
KITIMAT	CTD21	53	42.37	128	48.30	77	07	15	04	296		X		X	GLDL		
KITIMAT	CTD22	53	50.55	128	41.05	77	07	13	06	164		X		X	GLDL		
KITIMAT	CTD22	53	50.55	128	41.05	77	07	15	07	185		X		X	GLDL		
KITIMAT	CTD23	53	50.28	128	34.30	77	07	13	07	174		X		X	GLDL		
KITIMAT	CTD24	53	56.25	128	41.50	77	07	10	15	201		X		X	GLDL		
KITIMAT	CTD24	53	56.25	128	41.50	77	07	10	16	203		X		X	GLDL		
KITIMAT	CTD24	53	56.25	128	41.50	77	07	13	08	184		X		X	GLDL		
KITIMAT	CTD24	53	56.25	128	41.50	77	07	15	10	207		X		X	GLDL		
KITIMAT	CTD25	53	49.25	128	48.62	77	07	13	14	318		X		X	GLDL		
KITIMAT	CTD25	53	49.25	128	48.62	77	07	15	13	317		X		X	GLDL		
KITIMAT	CTD26	53	43.50	129	03.30	77	07	13	16	303		X		X	GLDL		
KITIMAT	CTD26	53	43.50	129	03.30	77	07	13	17	336		X		X	GLDL		
KITIMAT	CTD26	53	43.50	129	03.30	77	07	15	14	334		X		X	GLDL		
KITIMAT	CTD27	53	38.18	129	11.60	77	07	13	18	363		X		X	GLDL		
KITIMAT	CTD27	53	38.18	129	11.60	77	07	15	16	330		X		X	GLDL		
KITIMAT	CTD28	53	32.05	129	11.80	77	07	11	07	322		X		X	GLDL		
KITIMAT	CTD28	53	32.05	129	11.80	77	07	11	08	321		X		X	GLDL		
KITIMAT	CTD28	53	32.05	129	11.80	77	07	13	19	324		X		X	GLDL		
KITIMAT	CTD28	53	32.05	129	11.80	77	07	15	17	312		X		X	GLDL		
KITIMAT	CTD29	53	12.00	128	44.40	77	07	16	01	451		X		X	GLDL		
KITIMAT	CTD30	53	04.62	128	33.40	77	07	16	03	147		X		X	GLDL		
KITIMAT	CTD31	52	54.60	128	30.60	77	07	16	04	404		X		X	GLDL		
KITIMAT	CTD32	53	26.95	128	23.50	77	07	14	23	369		X		X	GLDL		
KITIMAT	CTD33	53	27.80	128	16.70	77	07	14	21	423		X		X	GLDL		
KITIMAT	CTD33	53	27.80	128	16.70	77	07	14	22	452		X		X	GLDL		
KITIMAT	CTD34	53	27.92	128	09.10	77	07	14	20	320		X		X	GLDL		
KITIMAT	CTD35	53	42.30	128	55.70	77	07	15	05	230		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 77-0042B
YEAR:1977 VESSEL/AGENCY: SEALION

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
KITIMAT	CTD01	53	23.85	129	11.9	77	09	28	20	385		X		X	GLDL		
KITIMAT	CTD01	53	23.85	129	11.9	77	09	28	21	43		X		X	GLDL		
KITIMAT	CTD01	53	23.85	129	11.9	77	10	01	19	399		X		X	GLDL		
KITIMAT	CTD02	53	22.6	129	08.85	77	09	28	21	397		X		X	GLDL		
KITIMAT	CTD02	53	22.6	129	08.85	77	10	01	20	399		X		X	GLDL		
KITIMAT	CTD02	53	22.6	129	08.85	77	10	04	02	400		X		X	GLDL		
KITIMAT	CTD03	53	20.65	129	18.0	77	09	29	23	498		X		X	GLDL		
KITIMAT	CTD04	53	25.2	129	24.7	77	09	29	22	239		X		X	GLDL		
KITIMAT	CTD05	53	40.3	129	46.1	77	09	29	19	111		X		X	GLDL		
KITIMAT	CTD06	53	13.2	129	25.2	77	09	29	13	480		X		X	GLDL		
KITIMAT	CTD07	53	11.2	129	39.0	77	09	29	12	181		X		X	GLDL		
KITIMAT	CTD08	52	54.4	129	28.9	77	09	29	10	12		X		X	GLDL		
KITIMAT	CTD09	53	00.45	129	12.65	77	09	29	04	353		X		X	GLDL		
KITIMAT	CTD10	53	06.3	129	21.6	77	09	29	02	521		X		X	GLDL		
KITIMAT	CTD11	53	06.1	129	07.0	77	09	29	01	450		X		X	GLDL		
KITIMAT	CTD12	53	11.9	129	07.0	77	09	29	00	500		X		X	GLDL		
KITIMAT	CTD13	53	18.38	129	05.20	77	09	28	22	474		X		X	GLDL		
KITIMAT	CTD13	53	18.38	129	05.20	77	09	30	02	474		X		X	GLDL		
KITIMAT	CTD14	53	18.40	128	53.90	77	09	30	01	299		X		X	GLDL		
KITIMAT	CTD14	53	18.40	128	53.90	77	10	04	22	180		X		X	GLDL		
KITIMAT	CTD15	53	26.05	128	55.40	77	09	30	05	251		X		X	GLDL		
KITIMAT	CTD15	53	26.05	128	55.40	77	10	04	18	360		X		X	GLDL		
KITIMAT	CTD16	53	27.80	129	04.00	77	09	30	07	193		X		X	GLDL		
KITIMAT	CTD16	53	27.80	129	04.00	77	10	04	04	177		X		X	GLDL		
KITIMAT	CTD17	53	32.95	128	54.75	77	09	30	09	210		X		X	GLDL		
KITIMAT	CTD17	53	32.95	128	54.75	77	09	30	09	209		X		X	GLDL		
KITIMAT	CTD18	53	34.75	128	48.40	77	09	30	20	161		X		X	GLDL		
KITIMAT	CTD18	53	34.75	128	48.40	77	10	03	01	140		X		X	GLDL		
KITIMAT	CTD19	53	29.52	128	40.86	77	09	30	19	174		X		X	GLDL		
KITIMAT	CTD20	53	25.20	128	32.70	77	09	30	17	206		X		X	GLDL		

KITIMAT	CTD21	53	42.37	128	48.30	77	09	30	21	300		X		X	GLDL		
KITIMAT	CTD21	53	42.37	128	48.30	77	10	03	02	301		X		X	GLDL		
KITIMAT	CTD22	53	50.55	128	41.05	77	09	30	23	172		X		X	GLDL		
KITIMAT	CTD23	53	50.28	128	34.30	77	10	01	00	182		X		X	GLDL		
KITIMAT	CTD24	53	56.25	128	41.50	77	10	01	11	200		X		X	GLDL		
KITIMAT	CTD24	53	56.25	128	41.50	77	10	03	05	91		X		X	GLDL		
KITIMAT	CTD25	53	49.25	128	48.62	77	10	01	13	329		X		X	GLDL		
KITIMAT	CTD25	53	49.25	128	48.62	77	10	03	03	314		X		X	GLDL		
KITIMAT	CTD26	53	43.50	129	03.30	77	10	01	14	330		X		X	GLDL		
KITIMAT	CTD27	53	38.18	129	11.60	77	10	01	16	324		X		X	GLDL		
KITIMAT	CTD28	53	32.05	129	11.80	77	10	01	17	101		X		X	GLDL		
KITIMAT	CTD28	53	32.05	129	11.80	77	10	01	17	299		X		X	GLDL		
KITIMAT	CTD29	53	12.00	128	44.40	77	10	04	23	399		X		X	GLDL		
KITIMAT	CTD30	53	04.62	128	33.40	77	10	05	01	100		X		X	GLDL		
KITIMAT	CTD31	52	54.60	128	30.60	77	10	05	02	419		X		X	GLDL		
KITIMAT	CTD32	53	26.95	128	23.50	77	09	30	16	358		X		X	GLDL		
KITIMAT	CTD33	53	27.80	128	16.70	77	09	30	14	450		X		X	GLDL		
KITIMAT	CTD34	53	27.92	128	09.10	77	09	30	13	275		X		X	GLDL		
KITIMAT	CTD35	53	42.30	128	55.70	77	09	30	20	216		X		X	GLDL		
KITIMAT	CTD36					77	09	29	21	102		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 77-0042C
YEAR:1977 VESSEL/AGENCY: SEALION

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
KITIMAT	CTD01	53	23.85	129	11.9	77	12	06	17	383		X		X	GLDL		
KITIMAT	CTD01	53	23.85	129	11.9	77	12	14	15	400		X		X	GLDL		
KITIMAT	CTD02	53	22.6	129	08.85	77	12	06	17	378		X		X	GLDL		
KITIMAT	CTD02	53	22.6	129	08.85	77	12	15	10	373		X		X	GLDL		
KITIMAT	CTD03	53	20.65	129	18.0	77	12	07	01	499		X		X	GLDL		
KITIMAT	CTD03	53	20.65	129	18.0	77	12	14	20	499		X		X	GLDL		
KITIMAT	CTD04	53	25.2	129	24.7	77	12	06	19	290		X		X	GLDL		
KITIMAT	CTD04	53	25.2	129	24.7	77	12	14	19			X		X	GLDL		
KITIMAT	CTD05	53	40.3	129	46.1	77	12	06	21	85		X		X	GLDL		
KITIMAT	CTD06	53	13.2	129	25.2	77	12	07	02	460		X		X	GLDL		
KITIMAT	CTD06	53	13.2	129	25.2	77	12	14	21	473		X		X	GLDL		
KITIMAT	CTD07	53	11.2	129	39.0	77	12	07	04	171		X		X	GLDL		
KITIMAT	CTD07	53	11.2	129	39.0	77	12	14	23	167		X		X	GLDL		
KITIMAT	CTD08	52	54.4	129	28.9	77	12	07	07	256		X		X	GLDL		
KITIMAT	CTD08	52	54.4	129	28.9	77	12	15	01	272		X		X	GLDL		
KITIMAT	CTD09	53	00.45	129	12.65	77	12	07	19	339		X		X	GLDL		
KITIMAT	CTD09	53	00.45	129	12.65	77	12	15	03	339		X		X	GLDL		
KITIMAT	CTD10	53	06.3	129	21.6	77	12	07	20	498		X		X	GLDL		
KITIMAT	CTD10	53	06.3	129	21.6	77	12	15	05	496		X		X	GLDL		
KITIMAT	CTD11	53	06.1	129	07.0	77	12	07	22	499		X		X	GLDL		
KITIMAT	CTD11	53	06.1	129	07.0	77	12	15	06	465		X		X	GLDL		
KITIMAT	CTD12	53	11.9	129	07.0	77	12	07	23	499		X		X	GLDL		
KITIMAT	CTD12	53	11.9	129	07.0	77	12	15	07	500		X		X	GLDL		
KITIMAT	CTD13	53	18.38	129	05.20	77	12	15	09	473		X		X	GLDL		
KITIMAT	CTD14	53	18.40	128	53.90	77	12	17	15	240		X		X	GLDL		
KITIMAT	CTD15	53	26.05	128	55.40	77	12	17	14	370		X		X	GLDL		
KITIMAT	CTD16	53	27.80	129	04.00	77	12	08	10	181		X		X	GLDL		
KITIMAT	CTD16	53	27.80	129	04.00	77	12	15	11	188		X		X	GLDL		
KITIMAT	CTD17	53	32.95	128	54.75	77	12	15	12	199		X		X	GLDL		
KITIMAT	CTD17	53	32.95	128	54.75	77	12	17	09	199		X		X	GLDL		
KITIMAT	CTD18	53	34.75	128	48.40	77	12	08	21	149		X		X	GLDL		
KITIMAT	CTD18	53	34.75	128	48.40	77	12	15	13	136		X		X	GLDL		
KITIMAT	CTD18	53	34.75	128	48.40	77	12	15	23	130		X		X	GLDL		
KITIMAT	CTD19	53	29.52	128	40.86	77	12	08	22	181		X		X	GLDL		
KITIMAT	CTD19	53	29.52	128	40.86	77	12	15	14	184		X		X	GLDL		
KITIMAT	CTD20	53	25.20	128	32.70	77	12	15	15	200		X		X	GLDL		
KITIMAT	CTD21	53	42.37	128	48.30	77	12	08	20	306		X		X	CLDL		
KITIMAT	CTD21	53	42.37	128	48.30	77	12	17	03	281		X		X	GLDL		
KITIMAT	CTD22	53	50.55	128	41.05	77	12	08	15	162		X		X	GLDL		
KITIMAT	CTD22	53	50.55	128	41.05	77	12	14	06	163		X		X	GLDL		
KITIMAT	CTD23	53	50.28	128	34.30	77	12	08	16	181		X		X	GLDL		
KITIMAT	CTD23	53	50.28	128	34.30	77	12	14	07	162		X		X	GLDL		
KITIMAT	CTD24	53	56.25	128	41.50	77	12	06	08	181		X		X	GLDL		
KITIMAT	CTD24	53	56.25	128	41.50	77	12	08	14	192		X		X	GLDL		
KITIMAT	CTD24	53	56.25	128	41.50	77	12	14	05	200		X		X	GLDL		
KITIMAT	CTD25	53	49.25	128	48.62	77	12	06	10	291		X		X	GLDL		
KITIMAT	CTD25	53	49.25	128	48.62	77	12	08	17	298		X		X	GLDL		
KITIMAT	CTD25	53	49.25	128	48.62	77	12	14	09	325		X		X	GLDL		

KITIMAT	CTD25	53	49.25	128	48.62	77	12	17	04	320		X		X	GLDL		
KITIMAT	CTD26	53	43.50	129	03.30	77	12	06	11	301		X		X	GLDL		
KITIMAT	CTD26	53	43.50	129	03.30	77	12	14	10	328		X		X	GLDL		
KITIMAT	CTD27	53	38.18	129	11.60	77	12	06	12	300		X		X	GLDL		
KITIMAT	CTD27	53	38.18	129	11.60	77	12	14	12	342		X		X	GLDL		
KITIMAT	CTD28	53	32.05	129	11.80	77	12	06	13	293		X		X	GLDL		
KITIMAT	CTD28	53	32.05	129	11.80	77	12	14	13			X		X	GLDL		
KITIMAT	CTD29	53	12.00	128	44.40	77	12	17	17	448		X		X	GLDL		
KITIMAT	CTD30	53	04.62	128	33.40	77	12	17	18	151		X		X	GLDL		
KITIMAT	CTD32	53	26.95	128	23.50	77	12	15	16	379		X		X	GLDL		
KITIMAT	CTD33	53	27.80	128	16.70	77	12	15	17	420		X		X	GLDL		
KITIMAT	CTD34	53	27.92	128	09.10	77	12	15	20	343		X		X	GLDL		
KITIMAT	CTD35	53	42.30	128	55.70	77	12	08	19	219		X		X	GLDL		
KITIMAT	CTD35	53	42.30	128	55.70	77	12	17	06	201		X		X	GLDL		
KITIMAT	CTD36					77	12	14	18	110		X		X	GLDL		
KITIMAT	CTD36	53	31.78	129	35.17	77	12	06	20	105		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 77-0042D
YEAR:1977 VESSEL/AGENCY: SEALION

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
KITIMAT	CTD12	53	11.90	129	07.00	78	03	10	20	500		X		X	GLDL		
KITIMAT	CTD13	53	18.38	129	05.20	78	03	10	21	478		X		X	GLDL		
KITIMAT	CTD14	53	18.40	128	53.90	78	03	10	23	222		X		X	GLDL		
KITIMAT	CTD15	53	26.05	128	55.40	78	03	11	00	350		X		X	GLDL		
KITIMAT	CTD16	53	27.80	129	04.00	78	03	11	02	180		X		X	GLDL		
KITIMAT	CTD17	53	32.95	128	54.75	78	03	11	04	199		X		X	GLDL		
KITIMAT	CTD18	53	34.75	128	48.40	78	03	11	05	151		X		X	GLDL		
KITIMAT	CTD19	53	29.52	128	40.86	78	03	11	09	161		X		X	GLDL		
KITIMAT	CTD20	53	25.20	128	32.70	78	03	11	10	199		X		X	GLDL		
KITIMAT	CTD32	53	26.95	128	23.50	78	03	11	11	359		X		X	GLDL		
KITIMAT	CTD33	53	27.80	128	16.70	78	03	11	12	400		X		X	GLDL		
KITIMAT	CTD34	53	27.92	128	09.10	78	03	11	14	301		X		X	GLDL		
KITIMAT	CTD37	53	22.75	128	03.50	78	03	11	16	202		X		X	GLDL		
KITIMAT	CTD38	53	19.50	127	55.80	78	03	11	16	241		X		X	GLDL		
KITIMAT	CTD39	53	16.20	127	56.20	78	03	11	17	141		X		X	GLDL		
KITIMAT	CTD18	53	34.75	128	48.40	78	03	11	22	151		X		X	GLDL		
KITIMAT	CTD17	53	32.95	128	54.75	78	03	11	23	200		X		X	GLDL		
KITIMAT	CTD16	53	27.80	129	04.00	78	03	12	00	191		X		X	GLDL		
KITIMAT	CTD02	53	22.60	129	08.85	78	03	12	01	371		X		X	GLDL		
KITIMAT	CTD12	53	11.90	129	07.00	78	03	12	03	498		X		X	GLDL		
KITIMAT	CTD11	53	06.10	129	07.00	78	03	12	04	448		X		X	GLDL		
KITIMAT	CTD09	53	00.45	129	12.65	78	03	12	05	322		X		X	GLDL		
KITIMAT	CTD08	52	54.40	129	28.90	78	03	12	06	259		X		X	GLDL		
KITIMAT	CTD07	53	11.20	129	39.00	78	03	12	09	152		X		X	GLDL		
KITIMAT	CTD06	53	13.20	129	25.20	78	03	12	10	445		X		X	GLDL		
KITIMAT	CTD05	53	40.30	129	46.10	78	03	12	14	102		X		X	GLDL		
KITIMAT	CTD36	53	31.78	129	35.17	78	03	12	16	101		X		X	GLDL		
KITIMAT	CTD04	53	25.20	129	24.70	78	03	12	17	261		X		X	GLDL		
KITIMAT	CTD03	53	20.65	129	18.00	78	03	12	18	481		X		X	GLDL		
KITIMAT	CTD01	53	23.85	129	11.90	78	03	12	19	363		X		X	GLDL		
KITIMAT	CTD28	53	32.05	129	11.80	78	03	12	21	300		X		X	GLDL		
KITIMAT	CTD27	53	38.18	129	11.60	78	03	12	23	328		X		X	GLDL		
KITIMAT	CTD26	53	43.50	129	03.30	78	03	13	00	320		X		X	GLDL		
KITIMAT	CTD25	53	49.25	128	48.62	78	03	13	02	320		X		X	GLDL		
KITIMAT	CTD22	53	50.55	128	41.05	78	03	13	03	161		X		X	GLDL		
KITIMAT	CTD23	53	50.28	128	34.30	78	03	13	04	181		X		X	GLDL		
KITIMAT	CTD24	53	56.25	128	41.50	78	03	13	05	200		X		X	GLDL		
KITIMAT	CTD25	53	49.25	128	48.62	78	03	13	08	319		X		X	GLDL		
KITIMAT	CTD35	53	42.30	128	55.70	78	03	13	09	209		X		X	GLDL		
KITIMAT	CTD21	53	42.37	128	48.30	78	03	13	10	298		X		X	GLDL		
KITIMAT	CTD18	53	34.75	128	48.40	78	03	13	11	152		X		X	GLDL		
KITIMAT	CTD17	53	32.95	128	54.75	78	03	13	12	222		X		X	GLDL		
KITIMAT	CTD15	53	26.05	128	55.40	78	03	13	14	390		X		X	GLDL		
KITIMAT	CTD29	53	12.00	128	44.40	78	03	15	10	477		X		X	GLDL		
KITIMAT	CTD31	52	54.60	128	30.60	78	03	15	13	420		X		X	GLDL		
KITIMAT	CTD24	53	56.25	128	41.50	78	05	09	19	209		X		X	GLDL		
KITIMAT	CTD25	53	49.25	128	48.62	78	05	09	22	299		X		X	GLDL		
KITIMAT	CTD26	53	43.50	129	03.30	78	05	09	23	321		X		X	GLDL		
KITIMAT	CTD27	53	38.18	129	11.60	78	05	10	01	321		X		X	GLDL		
KITIMAT	CTD28	53	32.05	129	11.80	78	05	10	02	300		X		X	GLDL		
KITIMAT	CTD01	53	23.85	129	11.90	78	05	10	03	401		X		X	GLDL		
KITIMAT	CTD09	53	00.45	129	12.65	78	05	10	15	331		X		X	GLDL		

KITIMAT	CTD10	53	06.30	129	21.60	78	05	10	17	497		X		X	GLDL		
KITIMAT	CTD11	53	06.10	129	07.00	78	05	10	19	447		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 77-0042E
YEAR:1977 VESSEL/AGENCY: SEALION

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
KITIMAT	CTD01	53	23.85	129	11.90	78	06	11	14	383		X		X	GLDL		
KITIMAT	CTD02	53	22.60	129	08.85	78	06	11	14	398		X		X	GLDL		
KITIMAT	CTD03	53	20.65	129	18.00	78	06	11	23	478		X		X	GLDL		
KITIMAT	CTD04	53	25.20	129	24.70	78	06	08	20	288		X		X	GLDL		
KITIMAT	CTD05	53	40.30	129	46.10	78	06	09	06	103		X		X	GLDL		
KITIMAT	CTD06	53	13.20	129	25.20	78	06	12	00	457		X		X	GLDL		
KITIMAT	CTD07	53	11.20	129	39.00	78	06	12	01	179		X		X	GLDL		
KITIMAT	CTD08	52	54.40	129	28.90	78	06	12	04	259		X		X	GLDL		
KITIMAT	CTD09	53	00.45	129	12.65	78	06	12	05	331		X		X	GLDL		
KITIMAT	CTD10	53	06.30	129	21.60	78	06	12	18	499		X		X	GLDL		
KITIMAT	CTD11	53	06.10	129	07.00	78	06	12	19	449		X		X	GLDL		
KITIMAT	CTD12	53	11.90	129	07.00	78	06	12	20	499		X		X	GLDL		
KITIMAT	CTD13	53	18.38	129	05.20	78	06	11	21	471		X		X	GLDL		
KITIMAT	CTD14	53	18.40	128	53.90	78	06	11	20	279		X		X	GLDL		
KITIMAT	CTD15	53	26.05	128	55.40	78	06	11	19	371		X		X	GLDL		
KITIMAT	CTD16	53	27.80	129	04.00	78	06	11	16	179		X		X	GLDL		
KITIMAT	CTD17	53	32.95	128	54.75	78	06	11	17	200		X		X	GLDL		
KITIMAT	CTD18	53	34.75	128	48.40	78	06	10	24	151		X		X	GLDL		
KITIMAT	CTD19	53	29.52	128	40.86	78	06	10	22	185		X		X	GLDL		
KITIMAT	CTD20	53	25.20	128	32.70	78	06	10	21	199		X		X	GLDL		
KITIMAT	CTD21	53	42.37	128	48.30	78	06	11	00	301		X		X	GLDL		
KITIMAT	CTD22	53	50.55	128	41.05	78	06	11	03	150		X		X	GLDL		
KITIMAT	CTD23	53	50.28	128	34.30	78	06	11	03	176		X		X	GLDL		
KITIMAT	CTD24	53	56.25	128	41.50	78	06	11	06	203		X		X	GLDL		
KITIMAT	CTD25	53	49.25	128	48.62	78	06	11	08	333		X		X	GLDL		
KITIMAT	CTD26	53	43.50	129	03.30	78	06	11	09	322		X		X	GLDL		
KITIMAT	CTD27	53	38.18	129	11.60	78	06	11	11	300		X		X	GLDL		
KITIMAT	CTD28	53	32.05	129	11.80	78	06	11	12	299		X		X	GLDL		
KITIMAT	CTD29	53	12.00	128	44.40	78	06	12	23	458		X		X	GLDL		
KITIMAT	CTD30	53	04.62	128	33.40	78	06	13	01	102		X		X	GLDL		
KITIMAT	CTD31	52	54.60	128	30.60	78	06	13	02	419		X		X	GLDL		
KITIMAT	CTD32	53	26.95	128	23.50	78	06	10	20	361		X		X	GLDL		
KITIMAT	CTD33	53	27.80	128	16.70	78	06	10	18	420		X		X	GLDL		
KITIMAT	CTD35	53	42.30	128	55.70	78	06	11	01	220		X		X	GLDL		
KITIMAT	CTD36	53	31.78	129	35.17	78	06	08	22	111		X		X	GLDL		
KITIMAT	CTD37	53	22.75	128	03.50	78	06	09	18	221		X		X	GLDL		
KITIMAT	CTD39	53	16.20	127	56.20	78	06	10	17	320		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 77-0043
YEAR:1977 VESSEL/AGENCY: PARIZEAU

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
KITIMAT	1	52	46.80	129	51.30	77	02	13	20	200	240	X		X	BOTT		
KITIMAT	2	52	53.00	129	30.00	77	02	13	18	165	180	X		X	BOTT		
KITIMAT	3	52	57.50	129	15.00	77	02	08	18	215	225	X		X	BOTT		
KITIMAT	4	53	06.80	129	21.80	77	02	08	22	600	660	X		X	BOTT		
KITIMAT	5	53	16.50	129	17.00	77	02	09	00	500	530	X		X	BOTT		
KITIMAT	6	53	05.0	129	09.0	77	02	09	16	550	567	X		X	BOTT		
KITIMAT	7	53	16.70	129	08.00	77	02	09	03	500	520	X		X	BOTT		
KITIMAT	8	53	26.30	129	12.60	77	02	09	19	380	400	X		X	BOTT		
KITIMAT	9	53	36.30	129	12.70	77	02	09	23	230	242	X		X	BOTT		
KITIMAT	10	53	44.00	129	01.70	77	02	10	02	360	380	X		X	BOTT		
KITIMAT	11	53	50.00	128	48.00	77	02	10	17	320	336	X		X	BOTT		
KITIMAT	12	53	58.75	128	40.50	77	02	10	19	160	178	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 77-0057A
YEAR:1977 VESSEL/AGENCY: IOS,PARIZEAU

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q.C. SOUND	QD1	51	00.00	127	55.00	77	05	17	21	100		X		X	GLDL		
Q.C. SOUND	QD1	51	00.00	127	55.00	77	05	22	19	100		X		X	GLDL		
Q.C. SOUND	QD2	51	25.00	128	35.00	77	05	18	01	200		X		X	GLDL		
Q.C. SOUND	QD2	51	25.00	128	35.00	77	05	22	15	200		X		X	GLDL		
Q.C. SOUND	QD3	51	14.00	129	05.80	77	05	18	04	200		X		X	GLDL		
Q.C. SOUND	QD4	51	00.00	129	17.00	77	05	18	10	150		X		X	GLDL		
Q.C. SOUND	QD6	51	22.70	130	03.00	77	05	18	23	300		X		X	GLDL		
Q.C. SOUND	QD8	51	44.50	130	47.00	77	05	19	05	225		X		X	GLDL		
HECATE STRAIT	QD9	52	04.00	130	31.00	77	05	19	10	275		X		X	GLDL		
HECATE STRAIT	QD10	52	16.50	130	16.00	77	05	19	11	300		X		X	GLDL		
HECATE STRAIT	QD10	52	16.50	130	16.00	77	05	22	02	300		X		X	GLDL		
HECATE STRAIT	QD10	52	16.50	130	16.00	77	05	22	02	300		X		X	GLDL		
HECATE STRAIT	QD10	52	16.50	130	16.00	77	05	22	03	300		X		X	GLDL		
HECATE STRAIT	QD10	52	16.50	130	16.00	77	05	22	04	300		X		X	GLDL		
HECATE STRAIT	QD10	52	16.50	130	16.00	77	05	22	05	300		X		X	GLDL		
HECATE STRAIT	QD10	52	16.50	130	16.00	77	05	22	06	300		X		X	GLDL		
HECATE STRAIT	QD10	52	16.50	130	16.00	77	05	22	06	300		X		X	GLDL		
Q.C. SOUND	QD11	50	20.00	129	40.00	77	05	19	14	200		X		X	GLDL		
HECATE STRAIT	QD12	52	34.00	129	53.50	77	05	19	17	225		X		X	GLDL		
HECATE STRAIT	QD13	52	50.00	129	53.50	77	05	19	19	175		X		X	GLDL		
HECATE STRAIT	QD14	52	54.00	129	24.00	77	05	20	12	225		X		X	GLDL		
HECATE STRAIT	QD15	52	09.50	130	24.00	77	05	19	22	175		X		X	GLDL		
HECATE STRAIT	QD16	53	27.40	130	45.00	77	05	21	14	125		X		X	GLDL		
HECATE STRAIT	QD17	53	13.50	130	53.00	77	05	21	16	100		X		X	GLDL		
HECATE STRAIT	QD18	53	00.00	131	00.00	77	05	21	18	20		X		X	GLDL		
HECATE STRAIT	QD19	52	48.00	130	46.50	77	05	21	20	75		X		X	GLDL		
HECATE STRAIT	QD20	52	36.50	130	33.50	77	05	21	22	150		X		X	GLDL		
HECATE STRAIT	QD21	52	24.50	130	21.00	77	05	22	00	275		X		X	GLDL		
HECATE STRAIT	QD22	52	02.50	129	44.00	77	05	22	10	100		X		X	GLDL		
Q.C. SOUND	QD23	51	46.50	129	14.00	77	05	22	13	100		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 77-0057B
YEAR:1977 VESSEL/AGENCY: ENDEAVOUR

AREA	STN	LAT		LCN		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q.C. SOUND	QD1	51	01.20	127	54.60	77	07	21	01	100		X		X	GLDL		
Q.C. SOUND	QD3	51	15.00	129	03.00	77	07	14	14	175		X		X	GLDL		
Q.C. SOUND	QD4	51	00.00	129	17.00	77	07	15	04	150		X		X	GLDL		
Q.C. SOUND	QD6	51	20.00	130	03.00	77	07	14	21	400		X		X	GLDL		
Q.C. SOUND	QD6	51	22.50	130	01.00	77	07	19	19	250		X		X	GLDL		
Q.C. SOUND	QD8	51	44.50	130	47.00	77	07	15	18	175		X		X	GLDL		
HECATE STRAIT	QD9	52	04.00	130	31.00	77	07	15	20	275		X		X	GLDL		
HECATE STRAIT	QD10	52	16.50	130	16.00	77	07	15	22	300		X		X	GLDL		
HECATE STRAIT	QD10	52	16.50	130	16.00	77	07	19	05	300		X		X	GLDL		
HECATE STRAIT	QD10	52	17.70	130	17.00	77	07	17	06	300		X		X	GLDL		
HECATE STRAIT	QD11	52	20.00	129	40.00	77	07	17	12	175		X		X	GLDL		
HECATE STRAIT	QD12	52	34.00	129	53.50	77	07	16	04	200		X		X	GLDL		
HECATE STRAIT	QD13	52	53.50	129	55.90	77	07	16	08	200		X		X	GLDL		
HECATE STRAIT	QD14	52	54.00	129	00.50	77	07	16	14	225		X		X	GLDL		
HECATE STRAIT	QD15	53	09.50	130	24.00	77	07	16	21	175		X		X	GLDL		
HECATE STRAIT	QD16	53	27.50	130	45.00	77	07	18	20	125		X		X	GLDL		
HECATE STRAIT	QD17	53	13.50	130	53.00	77	07	18	22	75		X		X	GLDL		
HECATE STRAIT	QD18	53	00.00	131	00.00	77	07	18	23	20		X		X	GLDL		
HECATE STRAIT	QD19	52	48.00	130	46.50	77	07	17	01	75		X		X	GLDL		
HECATE STRAIT	QD19	52	48.00	130	46.50	77	07	19	01	75		X		X	GLDL		
HECATE STRAIT	QD20	52	36.50	130	33.50	77	07	16	01	125		X		X	GLDL		
HECATE STRAIT	QD20	52	36.50	130	33.50	77	07	17	03	125		X		X	GLDL		
HECATE STRAIT	QD20	52	36.50	130	33.50	77	07	19	03	150		X		X	GLDL		
Q.C. SOUND	QD22	51	56.00	129	31.50	77	07	19	08	225		X		X	GLDL		
HECATE STRAIT	QD24	52	53.50	129	36.00	77	07	16	13	175		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	00	200		X		X	GLDL		

Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	00	200		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	01	175		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	02	175		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	03	175		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	04	175		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	05	175		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	06	175		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	07	175		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	08	175		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	09	175		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	10	175		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	11	175		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	12	175		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	13	175		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	14	200		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	15	200		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	16	175		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	17	175		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	18	175		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	19	175		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	20	175		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	21	175		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	22	175		X		X	GLDL		
Q.C. SOUND	QD30	51	19.00	128	50.00	77	07	20	22	175		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 77-0057C
YEAR:1977 VESSEL/AGENCY: PARIZEAU

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q.C. SOUND	QD1	51	01.20	127	54.50	77	09	27	08	100		X		X	GLDL		
Q.C. SOUND	QD2	51	25.00	128	35.00	77	09	27	04	175		X		X	GLDL		
Q.C. SOUND	QD3	51	15.00	129	03.00	77	09	20	09	200		X		X	GLDL		
Q.C. SOUND	QD4	51	00.00	129	17.00	77	09	20	11	150		X		X	GLDL		
Q.C. SOUND	QD6	51	20.00	130	03.00	77	09	20	19	300		X		X	GLDL		
Q.C. SOUND	QD8	51	44.50	130	47.00	77	09	21	05	250		X		X	GLDL		
HECATE STRAIT	QD9	52	04.00	130	31.00	77	09	21	21	300		X		X	GLDL		
HECATE STRAIT	QD10	52	16.50	130	16.00	77	09	21	18	300		X		X	GLDL		
HECATE STRAIT	QD11	52	20.00	129	40.00	77	09	23	17	200		X		X	GLDL		
HECATE STRAIT	QD12	52	34.00	129	53.50	77	09	23	19	225		X		X	GLDL		
HECATE STRAIT	QD13	52	53.50	129	55.90	77	09	23	22	225		X		X	GLDL		
HECATE STRAIT	QD14	52	54.00	129	00.50	77	09	22	14	225		X		X	GLDL		
HECATE STRAIT	QD15	53	09.50	130	24.00	77	09	24	01	175		X		X	GLDL		
HECATE STRAIT	QD16	53	27.50	130	45.00	77	09	24	13	175		X		X	GLDL		
HECATE STRAIT	QD17	53	13.50	130	45.00	77	09	24	12	100		X		X	GLDL		
HECATE STRAIT	QD18	53	00.00	131	00.00	77	09	24	10	30		X		X	GLDL		
HECATE STRAIT	QD20	52	36.50	130	33.50	77	09	22	01	125		X		X	GLDL		
Q.C. SOUND	QD22	51	56.00	129	31.50	77	09	21	13	200		X		X	GLDL		
HECATE STRAIT	QD91	52	54.50	130	42.30	77	09	24	08	50		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 77-0058
YEAR:1977 VESSEL/AGENCY: EPS

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
PORPOISE HBR	P12	54	13.23	130	17.64	77	06			17			X	X			
PORPOISE HBR	P18	54	14.21	130	18.27	77	06			14			X	X			
PORPOISE HBR	P20	54	12.13	130	18.32	77	06			25			X	X			
PORPOISE HBR	PH1	54	14.69	130	18.24	77	06			20			X	X			

BOTTLE/CTD DATA SET NUMBER: 77-0059
YEAR:1977 VESSEL/AGENCY: EPS

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
HASTINGS ARM	HA-2	55	29.2	129	45.40	77	06	13							BOTT		
ALICE ARM	M-48	55	27.1	129	36.80	77	06	13							BOTT		
ALICE ARM	N-11	55	27.0	129	30.28	77	06	13							BOTT		

BOTTLE/CTD DATA SET NUMBER: 77-0066A
YEAR:1977 VESSEL/AGENCY: G.B.REED

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q.C. SOUND	1	51	33.00	128	17.00	77	07	13	16	148	148			X	XBT		
Q.C. SOUND	2	51	33.00	128	20.00	77	07	13	21	158	158			X	XBT		
Q.C. SOUND	3	51	24.00	128	41.00	77	07	14	17	212	212			X	XBT		
Q.C. SOUND	4	51	21.00	128	34.00	77	07	14	22	195	195			X	XBT		
Q.C. SOUND	5	51	27.00	128	32.00	77	07	15	16	197	197			X	XBT		
Q.C. SOUND	6	51	04.00	128	51.00	77	07	16	16	173	173			X	XBT		
Q.C. SOUND	7	51	57.00	128	39.00	77	07	16	21	159	159			X	XBT		
Q.C. SOUND	8	51	57.00	129	21.00	77	07	18	00	203	203			X	XBT		
Q.C. SOUND	9	52	13.00	128	45.00	77	07	19	03	230	230			X	XBT		

BOTTLE/CTD DATA SET NUMBER: 77-0066B
YEAR:1977 VESSEL/AGENCY: G.B.REED

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q.C. SOUND	1	51	36.00	130	03.00	77	08	24	02	441	441			X	XBT		
Q.C. SOUND	2	51	40.00	129	56.00	77	08	24	22	190				X	XBT		
Q.C. SOUND	3	51	46.00	129	43.00	77	08	24	22	332	332			X	XBT		
Q.C. SOUND	4	51	57.00	129	19.00	77	08	25	08	196	196			X	BT		
Q.C. SOUND	5	51	51.00	129	30.00	77	08	25	15	232	232			X	BT		
Q.C. SOUND	6	51	48.00	129	39.00	77	08	25	17	241	241			X	BT		
Q.C. SOUND	7	51	51.00	129	35.00	77	08	25	22	275	275			X	XBT		
Q.C. SOUND	8	51	51.00	129	42.00	77	08	26	08	275				X	BT		
Q.C. SOUND	9	51	48.00	129	47.00	77	08	26	12	318	318			X	XBT		
Q.C. SOUND	10	51	44.00	129	59.00	77	08	26	14	339	339			X	XBT		
Q.C. SOUND	11	51	43.00	129	46.00	77	08	27	08	308	308			X	XBT		
Q.C. SOUND	12	51	47.00	129	33.00	77	08	27	10	239	239			X	BT		
Q.C. SOUND	13	51	21.00	129	29.00	77	08	27	14	210	214			X	BT		
Q.C. SOUND	14	51	20.00	129	27.00	77	08	27	17	228	228			X	BT		
Q.C. SOUND	15	51	23.00	129	22.00	77	08	28	09	170	170			X	BT		
Q.C. SOUND	16	51	20.00	129	22.00	77	08	28	12	235	235			X	BT		
Q.C. SOUND	17	51	19.00	129	20.00	77	08	28	14	275	275			X	BT		
Q.C. SOUND	18	51	25.00	129	08.00	77	08	28	17	161	161			X	BT		
Q.C. SOUND	19	51	15.00	128	36.00	77	08	29	08	218	218			X	BT		
Q.C. SOUND	20	51	04.00	128	08.00	77	08	29	13	167	167			X	BT		
Q.C. SOUND	21	51	10.00	128	34.00	77	08	30	10	181	181			X	BT		
Q.C. SOUND	22	51	21.00	128	46.00	77	08	30	13	233	233			X	BT		
Q.C. SOUND	23	51	26.00	128	46.00	77	08	30	14	200	200			X	BT		
Q.C. SOUND	24	51	27.00	128	50.00	77	08	30	17	176	176			X	BT		
Q.C. SOUND	25	51	24.00	129	06.00	77	08	31	08	199	199			X	BT		
Q.C. SOUND	26	51	22.00	129	04.00	77	08	31	10	245	245			X	BT		
Q.C. SOUND	27	51	17.00	128	59.00	77	08	31	12	262	262			X	BT		
Q.C. SOUND	28	51	15.00	128	57.00	77	08	31	14	200	208			X	BT		
Q.C. SOUND	29	51	12.00	129	12.00	77	08	31	17	275	275			X	XBT		

Q.C. SOUND	30	51	12.00	129	12.00	77	08	31	19	268	268			X	BT	
Q.C. SOUND	31	51	11.00	129	11.00	77	09	01	08	203	203			X	BT	
Q.C. SOUND	32	51	11.00	129	22.00	77	09	01	11	280	280			X	XBT	
Q.C. SOUND	33	51	07.00	129	25.00	77	09	01	15	275	275			X	BT	
Q.C. SOUND	34	51	18.00	129	26.00	77	09	01	17	275	280			X	BT	

BOTTLE/CTD DATA SET NUMBER: 77-0076
YEAR:1977 VESSEL/AGENCY: DOBROCKY

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
ALICE ARM	E4	55	27.32	129	29.65	77	03	11	21	75	110	X		X	BOTT		
ALICE ARM	Z3	55	30.18	129	45.90	77	03	10	23	300	322	X		X	BOTT		
ALICE ARM	F15	55	27.02	129	38.05	77	03	11		300	371	X		X	BOTT		
ALICE ARM	OI1	55	21.80	129	45.37	77	03	11	01	200	219	X		X	BOTT		
ALICE ARM	G9.5	55	26.75	129	32.30	77	03	11	21	200	230	X		X	BOTT		
ALICE ARM	I17.5	55	26.00	129	40.05	77	03	11	17	200	249	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 77-0077
YEAR:1977 VESSEL/AGENCY: DOBROCKY

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
ALICE ARM	E4	55	27.32	129	29.65	77	06	15	16	75	110	X		X	BOTT		
ALICE ARM	Z3	55	30.18	129	45.90	77	06	16	22	300	322	X		X	BOTT		
ALICE ARM	F15	55	27.02	129	38.05	77	06	15	23	300	371	X		X	BOTT		
ALICE ARM	OI1	55	21.80	129	45.37	77	06	16	20	200	219	X		X	BOTT		
ALICE ARM	G9.5	55	26.75	129	32.30	77	06	15	21	200	230	X		X	BOTT		
ALICE ARM	I17.5	55	26.00	129	40.05	77	06	17	00	200	249	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 77-0078
YEAR:1977 VESSEL/AGENCY: DOBROCKY

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
ALICE ARM	E4	55	27.32	129	29.65	77	09	20	15	75	110	X		X	BOTT		
ALICE ARM	Z3	55	30.18	129	45.90	77	09	19	19	150	322	X		X	BOTT		
ALICE ARM	F15	55	27.02	129	38.05	77	09	19	22	200	371	X		X	BOTT		
ALICE ARM	OI1	55	21.80	129	45.37	77	09	19	16	200	219	X		X	BOTT		
ALICE ARM	G9.5	55	26.75	129	32.30	77	09	20	16	150	230	X		X	BOTT		
ALICE ARM	I17.5	55	26.00	129	40.05	77	09	19	21	200	249	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 77-0079
YEAR:1977 VESSEL/AGENCY: ASSOC.ENG.SERV.

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
PRINCE RUPERT	1	54	20.15	130	17.82	77	07	11	20	43		X		X	RCM4		
PRINCE RUPERT	2	54	18.63	130	19.03	77	07	11	19	41		X		X	RCM4		
PRINCE RUPERT	2	54	19.62	130	18.77	77	07	08	18	43		X		X	RCM4		
PRINCE RUPERT	2	54	19.62	130	18.77	77	07	08	19	43		X		X	RCM4		
PRINCE RUPERT	2	54	19.62	130	18.77	77	07	08	22	43		X		X	RCM4		
PRINCE RUPERT	2	54	19.62	130	18.77	77	07	08	23	46		X		X	RCM4		
PRINCE RUPERT	2	54	19.62	130	18.77	77	07	09	00	46		X		X	RCM4		
PRINCE RUPERT	2	54	19.62	130	18.77	77	07	09	01	46		X		X	RCM4		
PRINCE RUPERT	2	54	19.62	130	18.77	77	07	09	02	43		X		X	RCM4		
PRINCE RUPERT	2	54	19.75	130	18.98	77	07	07	21	43		X		X	RCM4		
PRINCE RUPERT	2	54	19.75	130	18.98	77	07	07	22	43		X		X	RCM4		
PRINCE RUPERT	3	54	18.98	130	20.85	77	07	11	18	43		X		X	RCM4		
PRINCE RUPERT	4	54	14.77	130	20.87	77	07	11	17	43		X		X	RCM4		
PRINCE RUPERT	4	54	14.95	130	20.82	77	07	09	16	43		X		X	RCM4		

BOTTLE/CTD DATA SET NUMBER: 78-0028A
YEAR:1978 VESSEL/AGENCY: UBC,IMP.TOFINO

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
DIXON ENTRANCE	1	54	29.	131	17.	78	03	14	00	3		X					
CHATHAM SOUND	4	53	59.	130	13.	78	03	16	11	3		X					

BOTTLE/CTD DATA SET NUMBER: 78-0028B
YEAR:1978 VESSEL/AGENCY: UBC,IMP.TOFINO

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
COASTAL INLETS	3	51	17.	127	43.	78	07	25	18	3		X					
COASTAL INLETS	4	51	23.	127	49.	78	07	26	03	3		X					
COASTAL INLETS	5	51	46.	127	55.	78	07	26	16	3		X					
COASTAL INLETS	6	52	15.	128	17.	78	07	26	20	3		X					
COASTAL INLETS	7	52	34.	128	29.	78	07	27	00	3		X					
COASTAL INLETS	8	52	58.	128	31.	78	07	27	03	3		X					
COASTAL INLETS	9	53	19.	128	56.	78	07	27	06	3		X					
COASTAL INLETS	10	54	09.	130	20.	78	07	27	15	3		X					
HECATE STRAIT	11	53	56.	130	54.	78	07	28	07	3		X					
HECATE STRAIT	12	53	45.	131	14.	78	07	28	08	3		X					
HECATE STRAIT	13	53	29.	131	30.	78	07	28	23	3		X					
COASTAL INLETS	14	53	40.	130	25.	78	07	29	08	3		X					
COASTAL INLETS	15	54	18.	130	34.	78	07	30	03	3		X					
COASTAL INLETS	16	54	51.	130	13.	78	07	30	14	3		X					
COASTAL INLETS	17	53	22.	129	19.	78	08	01	07	3		X					
COASTAL INLETS	18	52	20.	127	05.	78	08	02	14	3		X					
COASTAL INLETS	19	51	37.	127	53.	78	08	03	02	3		X					
Q.C.SOUND	20	51	00.	128	00.	78	08	03	14	3		X					

BOTTLE/CTD DATA SET NUMBER: 78-0028C
YEAR:1978 VESSEL/AGENCY: UBC,IMP.TOFINO

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT NO HR
COASTAL INLETS	11	50	30.	128	20.	78	08	16	00	3		X		X		
COASTAL INLETS	12	50	47.	127	30.	78	08	16	08	3		X		X		
COASTAL INLETS	13	51	06.	127	48.	78	08	16	17	3		X		X		
COASTAL INLETS	14	51	17.	127	20.	78	08	16	20	3		X		X		
COASTAL INLETS	15	51	18.	127	41.	78	08	17	02	3		X		X		
COASTAL INLETS	16	51	34.	127	34.	78	08	17	07	3		X		X		
COASTAL INLETS	17	51	55.	127	54.	78	08	17	23	3		X		X		
COASTAL INLETS	18	52	10.	128	08.	78	08	18	01	3		X		X		
COASTAL INLETS	19	53	13.	128	46.	78	08	18	14	3		X		X		
COASTAL INLETS	20	53	23.	129	17.	78	08	18	20	3		X		X		
COASTAL INLETS	21	54	17.	131	22.	78	08	19	19	3		X		X		
COASTAL INLETS	22	54	06.	131	48.	78	08	19	22	3		X		X		
COASTAL INLETS	23	54	10.	132	28.	78	08	20	02	3		X		X		
COASTAL INLETS	25	54	11.	132	45.	78	08	21	00	3		X		X		
COASTAL INLETS	26	53	17.	131	53.	78	08	21	14	3		X		X		
COASTAL INLETS	27	53	26.	131	46.	78	08	22	03	3		X		X		
COASTAL INLETS	28	53	55.	130	14.	78	08	22	14	3		X		X		
COASTAL INLETS	29	54	13.	130	24.	78	08	23	02	3		X		X		
COASTAL INLETS	30	54	37.	130	41.	78	08	23	07	3		X		X		
COASTAL INLETS	31	52	34.	128	30.	78	08	25	03	3		X		X		
COASTAL INLETS	32	52	23.	127	27.	78	08	25	17	3		X		X		
COASTAL INLETS	33	52	16.	127	17.	78	08	26	01	3		X		X		

BOTTLE/CTD DATA SET NUMBER: 78-0028D
YEAR:1978 VESSEL/AGENCY: UBC,IMP.TOFINO

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT NO HR
COASTAL INLETS	11	51	27.	127	50.	78	09	19	00	3		X		X		
COASTAL INLETS	12	53	18.	129	04.	78	09	19	22	3		X		X		
COASTAL INLETS	13	54	32.	130	32.	78	09	20	19	3		X		X		
COASTAL INLETS	15	53	33.	131	45.	78	09	22	17	3		X		X		
COASTAL INLETS	16	53	32.	131	22.	78	09	23	07	3		X		X		
COASTAL INLETS	17	53	49.	130	19.	78	09	24	20	3		X		X		
COASTAL INLETS	18	53	41.	129	47.	78	09	24	23	3		X		X		
COASTAL INLETS	19	52	53.	128	32.	78	09	25	17	3		X		X		
COASTAL INLETS	20	52	16.	127	43.	78	09	26	02	3		X		X		
COASTAL INLETS	21	52	05.	128	06.	78	09	26	20	3		X		X		

BOTTLE/CTD DATA SET NUMBER: 78-0028E
YEAR:1978 VESSEL/AGENCY: UBC,IMP.TOFINO

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT NO HR
DIXON ENTRANCE	1	54	07.	131	49.	78	10	19	05	3		X		X		
DIXON ENTRANCE	2	54	11.	132	25.	78	10	19	07	3		X		X		
HECATE STRAIT	6	53	54.	131	34.	78	10	20	14	3		X		X		
HECATE STRTAIT	7	53	32.	131	45.	78	10	20	17	3		X		X		
HECATE STRTAIT	8	53	32.	131	18.	78	10	21	07	3		X		X		
CHATHAM SOUND	9	54	13.	130	24.	78	10	21	21	3		X		X		
CHATHAM SOUND	10	54	32.	130	32.	78	10	22	04	3		X		X		
GRENVILLE CH.	11	53	52.	130	03.	78	10	23	04	3		X		X		
GRENVILLE CH.	12	53	41.	129	47.	78	10	23	06	3		X		X		

GRENVILLE CH.	13	53 20.	129 00.	78 10 23 23	3		X		X		
PR. ROYAL CH.	14	53 12.	128 40.	78 10 24 00	3		X		X		
MILBANKE SOUND	15	52 18.	128 30.	78 10 24 07	3		X		X		
FITZ HUGH SD.	16	51 46.	127 56.	78 10 24 22	3		X		X		
FITZ HUGH SD.	17	51 23.	127 50.	78 10 24 23	3		X		X		

BOTTLE/CTD DATA SET NUMBER: 78-0028F
YEAR:1978 VESSEL/AGENCY: UBC,IMP.TOFINO

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
Q.C. SOUND	4	51 08.	128 47.	79 01 03 19	3		X		X		
HECATE STRAIT	7	53 56.	131 34.	79 01 05 14	3		X		X		
HECATE STRAIT	8	53 16.	131 13.	79 01 06 08	3		X		X		

BOTTLE/CTD DATA SET NUMBER: 78-0028G
YEAR:1978 VESSEL/AGENCY: UBC,IMP.TOFINO

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
B.C. INLETS		51 07.	127 45.	79 04 02 04	270				X	XBT	
B.C. INLETS		51 27.	127 46.	79 04 07 08	240				X	XBT	
B.C. INLETS		51 48.	127 56.	79 04 02 08	220				X	XBT	
Q.C.SOUND		52 16.	128 52.	79 04 02 14	220				X	XBT	
HECATE STRAIT		52 50.	130 33.5	79 04 02 21	130				X	XBT	
B.C. INLETS		53 18.	128 54.	79 04 06 05	240				X	XBT	
HECATE STRAIT		53 20.	131 32.	79 04 03 01	150				X	XBT	
B.C. INLETS		54 16.5	130 32.	79 04 04 15	250				X	XBT	
B.C. INLETS	4	51 09.	127 48.	79 04 02 04	3		X		X		
B.C. INLETS	5	51 53.	127 57.	79 04 02 08	3		X		X		
HECATE STRAIT	6	52 18.	129 06.	79 04 02 15	3		X		X		
HECATE STRAIT	7	52 48.	130 33.	79 04 02 21	3		X		X		
HECATE STRAIT	8	53 22.	131 42.	79 04 03 02	3		X		X		
CHATHAM SOUND	9	54 10.	130 24.	79 04 03 19	3		X		X		
CHATHAM SOUND	10	54 18.	130 36.	79 04 04 15	3		X		X		
B.C. INLETS	11	53 18.	128 54.	79 04 06 05	3		X		X		
Q.C.SOUND	12	52 18.	128 29.	79 04 06 17	3		X		X		
B.C. INLETS	13	51 27.	127 46.	79 04 07 08	3		X		X		

BOTTLE/CTD DATA SET NUMBER: 78-0029A
YEAR:1978 VESSEL/AGENCY: SEAKEM/IOS,SEALION

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
KITIMAT	1	53	19.20	129	01.00	78	06	21	00	230	485	X		X	AMS		
KITIMAT	2	53	12.00	129	07.00	78	06	22	08	230	590	X		X	AMS		
KITIMAT	3	52	54.00	129	17.00	78	06	22	16	190	250	X		X	AMS		
KITIMAT	4	53	11.20	129	39.20	78	06	22	03	150	198	X		X	AMS		
KITIMAT	5	53	13.10	129	25.00	78	06	23	14	230		X		X	AMS		
KITIMAT	6	53	25.00	129	12.30	78	06	23	00	230		X		X	AMS		
KITIMAT	7	53	38.00	129	12.00	78	06	24	14	230		X		X	AMS		
KITIMAT	8	53	50.00	128	49.00	78	06	24	22	175		X		X	AMS		
KITIMAT	9	53	55.80	128	41.90	78	06	24	01	140	230	X		X	AMS		
KITIMAT	10	53	59.00	128	40.70	78	06	25	21	100	130	X		X	AMS		
KITIMAT	11	53	50.30	128	35.50	78	06	25	03	145	220	X		X	AMS		
KITIMAT	13	53	42.30	128	48.50	78	06	26	16	230	310	X		X	AMS		
KITIMAT	14	53	25.10	128	32.20	78	06	26	23	145	230	X		X	AMS		
KITIMAT	15	53	28.00	129	04.20	78	06	27	15	145	210	X		X	AMS		
KITIMAT	16	53	26.00	129	55.50	78	06	27	18	230	420	X		X	AMS		
KITIMAT	CTD1	53	12.00	128	44.30	78	06	21	21	230		X		X	AMS		
KITIMAT	CTD2	53	18.90	128	54.80	78	06	21	23	230		X		X	AMS		
KITIMAT	CTD3	53	20.80	129	17.70	78	06	23	20	230		X		X	AMS		
KITIMAT	CTD4	53	28.00	129	28.00	78	06	23	22	95		X		X	AMS		
KITIMAT	CTD5	53	32.00	129	12.20	78	06	23	04	215		X		X	AMS		
KITIMAT	CTD6	53	43.90	128	49.00	78	06	24	20	230		X		X	AMS		
KITIMAT	CTD7	53	51.40	128	41.50	78	06	25	06	125		X		X	AMS		
KITIMAT	CTD8	53	29.50	128	41.00	78	06	26	21	145		X		X	AMS		
KITIMAT	CTD9	53	34.80	128	48.50	78	06	26	06	125		X		X	AMS		
KITIMAT	CTD10	53	32.80	128	53.50	78	06	27	07	185		X		X	AMS		

BOTTLE/CTD DATA SET NUMBER: 78-0029B
YEAR:1978 VESSEL/AGENCY: SEAKEM/IOS,SEALION

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
KITIMAT	1	53	19.20	129	01.00	78	10	20	21	450	500	X		X	BOTT		
KITIMAT	2	53	12.00	129	07.00	78	10	21	05	470	540	X		X	BOTT		
KITIMAT	3	52	54.00	129	17.00	78	10	21	11	173	250	X		X	BOTT		
KITIMAT	4	53	11.20	129	39.20	78	10	21	18	141	200	X		X	BOTT		
KITIMAT	5	53	13.10	129	25.00	78	10	21	22	412	510	X		X	BOTT		
KITIMAT	6	53	25.00	129	12.30	78	10	22	06	400	420	X		X	BOTT		
KITIMAT	7	53	38.00	129	12.00	78	10	22	13	149	340	X		X	BOTT		
KITIMAT	8	53	50.00	128	48.30	78	10	22	21	300	350	X		X	BOTT		
KITIMAT	9	53	55.30	128	41.90	78	10	23	23	200	230	X		X	BOTT		
KITIMAT	10	53	59.00	128	40.80	78	10	24	04	100	120	X		X	BOTT		
KITIMAT	11	53	50.30	128	35.50	78	10	24	08	200	220	X		X	BOTT		
KITIMAT	13	53	34.80	128	48.50	78	10	24	17	275	305	X		X	BOTT		
KITIMAT	14	53	25.10	128	32.30	78	10	24	23	190	240	X		X	BOTT		
KITIMAT	15	53	26.00	129	04.20	78	10	25	05	169	205	X		X	BOTT		
KITIMAT	16	53	26.00	129	55.50	78	10	25	09	350	390	X		X	BOTT		
KITIMAT	81	53	50.00	128	48.30	78	10	23	01	300	350	X		X	BOTT		
KITIMAT	82	53	50.00	128	48.30	78	10	23	05	300	350	X		X	BOTT		
KITIMAT	83	53	50.00	128	48.30	78	10	23	09	300	350	X		X	BOTT		
KITIMAT	84	53	50.00	128	48.30	78	10	23	13	300	350	X		X	BOTT		
KITIMAT	85	53	50.00	128	48.30	78	10	23	17	300	350	X		X	BOTT		
KITIMAT	86	53	50.00	128	48.30	78	10	23	21	300	350	X		X	BOTT		
KITIMAT	CTD1	53	12.00	128	44.30	78	10	20	18	492	520	X		X	BOTT		
KITIMAT	CTD2	53	18.90	128	54.80	78	10	21	03	300	475	X		X	BOTT		
KITIMAT	CTD6	53	43.90	129	02.00	78	10	22	19	166	360	X		X	BOTT		
KITIMAT	CTD7	53	51.40	128	41.50	78	10	24	11	150	170	X		X	BOTT		
KITIMAT	CTD8	53	29.50	128	41.00	78	10	25	02	150	175	X		X	BOTT		
KITIMAT	CTD9	53	34.80	128	48.50	78	10	24	20	140	160	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 78-0029C
YEAR:1978 VESSEL/AGENCY: SEAKEM/IOS,SEALION

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
KITIMAT	1	53	19.20	129	01.00	79	02	08	02	450	510	X		X	BOTT		
KITIMAT	2	53	11.60	129	07.00	79	02	08	06	495	560	X		X	BOTT		
KITIMAT	3	52	53.90	129	17.00	79	02	08	15	199	260	X		X	BOTT		
KITIMAT	4	53	11.20	129	39.20	79	02	08	22	150	210	X		X	BOTT		
KITIMAT	5	53	13.10	129	25.20	79	02	09	02	465	520	X		X	BOTT		
KITIMAT	6	53	25.00	129	12.40	79	02	09	11	375	420	X		X	BOTT		
KITIMAT	7	53	37.80	129	11.90	79	02	09	17	300	350	X		X	BOTT		
KITIMAT	8	53	50.00	128	48.20	79	02	09	22	300	340	X		X	BOTT		
KITIMAT	9	53	55.90	128	42.00	79	02	11	07	158	220	X		X	BOTT		
KITIMAT	10	53	59.00	128	40.60	79	02	11		90	100	X		X	BOTT		
KITIMAT	11	53	50.30	128	35.60	79	02	11	03	175	205	X		X	BOTT		
KITIMAT	14	53	27.50	128	36.80	79	02	12	12	200	240	X		X	BOTT		
KITIMAT	15	53	28.00	129	04.20	79	02	12	19	149	205	X		X	BOTT		
KITIMAT	16	53	25.90	128	55.50	79	02	13	01	400	430	X		X	BOTT		
KITIMAT	81	53	50.00	128	48.20	79	02	10	02	290	340	X		X	BOTT		
KITIMAT	82	53	50.00	128	48.20	79	02	10	08	262	340	X		X	BOTT		
KITIMAT	83	53	50.00	128	48.20	79	02	10	11	230	340	X		X	BOTT		
KITIMAT	84	53	50.00	128	48.20	79	02	10	16	230	340	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 78-0037
YEAR:1978 VESSEL/AGENCY: EPS

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
PORPOISE HBR	FB-1	54	11.79	130	18.78	78	07	13		12			X	X			
PORPOISE HBR	P-12	54	13.23	130	17.64	78	07	13		18			X	X	BOTT		
PORPOISE HBR	P-17	54	17.10	130	16.80	78	07	13		25			X	X	BOTT		
PORPOISE HBR	P-18	54	14.21	130	18.27	78	07	13		15			X	X	BOTT		
PORPOISE HBR	P-20	54	12.13	130	18.32	78	07	13		20			X	X	BOTT		
PORPOISE HBR	PE-1	54	13.79	130	18.14	78	07	13		15			X	X	BOTT		
PORPOISE HBR	PE-2	54	12.79	130	17.48	78	07	13		20			X	X	BOTT		
PORPOISE HBR	PH-1	54	14.60	130	18.24	78	07	13		15			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 78-0047
YEAR:1978 VESSEL/AGENCY: A.HARVESTER

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q.C. SOUND	1	51	08.00	128	25.00	78	01	25	11	184	184			X	XBT		
Q.C. SOUND	2	51	13.00	128	48.00	78	01	25	15	182	182			X	XBT		
Q.C. SOUND	3	51	10.00	128	45.00	78	01	26	09	85	85			X	XBT		
Q.C. SOUND	4	51	12.00	128	27.00	78	01	26	12	192	192			X	XBT		
Q.C. SOUND	5	51	12.00	128	10.00	78	01	27	09	159	159			X	XBT		
Q.C. SOUND	6	51	15.00	129	00.00	78	01	27	13	200	200			X	XBT		
Q.C. SOUND	7	51	23.00	129	15.00	78	01	28	08	98	98			X	XBT		
Q.C. SOUND	8	51	06.00	129	17.00	78	01	28	18	184	184			X	XBT		
Q.C. SOUND	9	51	15.00	129	04.00	78	01	29	10	192	216			X	XBT		
Q.C. SOUND	10	51	24.00	128	54.00	78	01	29	14	196	196			X	XBT		
Q.C. SOUND	11	51	22.00	128	42.00	78	01	31	10	208	208			X	XBT		
Q.C. SOUND	12	51	28.00	129	28.00	78	01	31	18	132	132			X	XBT		
Q.C. SOUND	13	51	35.00	129	50.00	78	02	01	09	170	170			X	XBT		
Q.C. SOUND	14	51	23.00	129	17.00	78	02	02		118	118			X	XBT		

BOTTLE/CTD DATA SET NUMBER: 78-0048
YEAR:1978 VESSEL/AGENCY: G.B.REED

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q.C. SOUND	1	51	13.00	128	34.00	78	01	26	08	195	195			X	XBT		
Q.C. SOUND	2	51	06.00	128	54.00	78	01	27	20	63				X	XBT		
Q.C. SOUND	3	51	05.00	129	06.00	78	01	27	23	135				X	XBT		
Q.C. SOUND	4	51	17.00	128	46.00	78	01	30	10	190	193			X	XBT		

BOTTLE/CTD DATA SET NUMBER: 78-0049
YEAR:1978 VESSEL/AGENCY: A.HARVESTER

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q.C. SOUND	1	50	50.00	127	48.00	78	03	15	08	162	162	X		X	BOT		
Q.C. SOUND	2	51	08.00	128	19.00	78	03	15	10	178	178			X	XBT		
Q.C. SOUND	3	51	16.00	128	42.00	78	03	15	11	175	175	X		X	BOT		
Q.C. SOUND	4	51	24.00	128	53.00	78	03	15	12	208	208			X	XBT		
Q.C. SOUND	5	51	36.00	129	10.00	78	03	15	14	47	47	X		X	BOT		
DIXON ENTRANCE	6	54	01.00	131	00.00	78	03	16	13	96	96			X	XBT		
DIXON ENTRANCE	7	54	09.00	131	02.00	78	03	17	17	100	100			X	XBT		
DIXON ENTRANCE	8	54	16.00	131	03.00	78	03	17	11	116	116	X		X	BOT		
DIXON ENTRANCE	9	54	29.00	131	59.00	78	03	18	02	279	279			X	XBT		
DIXON ENTRANCE	11	54	33.00	132	01.00	78	03	18	12	296	296	X		X	BOT		
DIXON ENTRANCE	12	54	40.00	131	52.00	78	03	19	17	340	340			X	XBT		
DIXON ENTRANCE	13	54	18.00	130	42.00	78	03	19	08	0		X		X	BOT		
DIXON ENTRANCE	14	54	17.00	130	46.00	78	03	19	11	178	178			X	XBT		
DIXON ENTRANCE	15	54	40.00	130	43.00	78	03	19	18	640		X		X	BOT		
DIXON ENTRANCE	16	54	20.00	131	04.00	78	03	20	02	92				X	XBT		
DIXON ENTRANCE	17	54	28.00	111	00.00	78	03	20	11	168		X		X	BOT		
HECATE STRAIT	19	53	49.00	130	42.00	78	03	21	10	0		X		X	BOT		
DIXON ENTRANCE	20	54	25.00	131	29.00	78	03	21	18	270		X		X	BOT		
DIXON ENTRANCE	21	54	17.00	131	05.00	78	03	22	11	93	93			X	XBT		
DIXON ENTRANCE	22	54	29.00	130	37.00	78	03	23	11	92	92			X	XBT		
HECATE STRAIT	23	52	54.00	129	31.00	78	03	24	19	272	272			X	XBT		
HECATE STRAIT	24	53	11.00	129	23.00	78	03	25	13	460				X	XBT		
HECATE STRAIT	26	52	35.00	128	28.00	78	03	27	10	460				X	XBT		
DIXON ENTRANCE	10A	54	30.00	132	25.00	78	03	18	08	340	340	X		X	BOT		
DIXON ENTRANCE	10B	54	30.00	132	25.00	78	03	18	08	50	340			X	XBT		
DIXON ENTRANCE	18A	54	27.00	131	25.00	78	03	20	16	0		X		X	BOT		
DIXON ENTRANCE	18B	54	27.00	131	25.00	78	03	20	18	250		X		X	BOT		
HECATE STRAIT	25A	52	39.00	128	29.00	78	03	26	13	450				X	XBT		
HECATE STRAIT	25B	52	39.00	128	29.00	78	03	26	13	200		X		X	BOT		

BOTTLE/CTD DATA SET NUMBER: 78-0050
YEAR:1978 VESSEL/AGENCY: A.HARVESTER

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
DIXON ENTRANCE	28	54	17.00	133	04.00	78	05	23	07	425	425			X	XBT		
Q.C. SOUND	42	51	53.00	131	02.00	78	05	29	15	150				X	XBT		
Q.C. SOUND	43	51	08.00	128	41.00	78	05	30	08	105	105			X	XBT		
Q.C. SOUND	44	51	10.00	128	43.00	78	05	30	10	132	132			X	XBT		
Q.C. SOUND	45	51	10.00	128	40.00	78	05	30	11	125	125			X	XBT		
Q.C. SOUND	46	51	11.00	128	37.00	78	05	30	13	150	150			X	XBT		
Q.C. SOUND	47	51	41.00	130	29.00	78	05	30	17	425	425			X	XBT		
Q.C. SOUND	48	51	30.00	129	54.00	78	05	30	19	198	198			X	XBT		

Q.C. SOUND	49	51	21.00	129	28.00	78	05	30	21	175	175			X	XBT		

BOTTLE/CTD DATA SET NUMBER: 78-0051
YEAR:1978 VESSEL/AGENCY: A.HARVESTER

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
Q.C. SOUND	9	51	12.00	128	19.00	78	07	10	09	65	65			X	BT		
Q.C. SOUND	10	51	06.00	128	38.00	78	07	10	10	75	85	X		X	BOT		
Q.C. SOUND	11	50	44.00	128	37.00	78	07	11	11	100	117	X		X	BOT		

BOTTLE/CTD DATA SET NUMBER: 78-0052
YEAR:1978 VESSEL/AGENCY: M.V.NEMESIS

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
Q.C. SOUND	1	51	09.00	128	42.00	78	07	06	21	90				X	XBT		
HECATE STRAIT	1	54	32.00	132	50.00	78	07	08	10	264	264			X	XBT		
Q.C. SOUND	2	51	22.00	129	04.00	78	07	06	12	230	230			X	XBT		
DIXON ENTRANCE	2	54	32.00	131	40.00	78	07	11	13	321	321			X	XBT		
Q.C. SOUND	3	51	49.00	129	41.00	78	07	06	19	280	280			X	XBT		
DIXON ENTRANCE	3	54	56.00	130	59.00	78	07	12	19	368	368			X	XBT		
Q.C. SOUND	4	52	20.00	130	06.00	78	07	06	23	225	225			X	XBT		
HECATE STRAIT	5	53	53.00	130	57.00	78	07	07	14	90				X	XBT		
HECATE STRAIT	6	53	59.00	131	02.00	78	07	07	16	85				X	XBT		
DIXON ENTRANCE	7	54	23.00	131	15.00	78	07	07	21	120	120			X	XBT		
DIXON ENTRANCE	8	54	25.00	131	09.00	78	07	08	10	135				X	XBT		
DIXON ENTRANCE	9	54	19.00	131	23.00	78	07	08	13	113	113			X	XBT		
DIXON ENTRANCE	10	54	18.00	131	27.00	78	07	08	15	106	106			X	XBT		
DIXON ENTRANCE	11	54	20.00	131	29.00	78	07	08	16	145	145			X	XBT		
DIXON ENTRANCE	12	54	18.00	131	32.00	78	07	09	09	135	135			X	XBT		
DIXON ENTRANCE	13	54	17.00	131	34.00	78	07	09	09	118	118			X	XBT		
DIXON ENTRANCE	14	54	17.00	131	35.00	78	07	09	10	73				X	XBT		
DIXON ENTRANCE	15	54	23.00	131	33.00	78	07	09	12	190	190			X	XBT		
DIXON ENTRANCE	16	54	25.00	131	19.00	78	07	09	14	200				X	XBT		
DIXON ENTRANCE	17	54	29.00	131	14.00	78	07	09	18	108				X	XBT		
DIXON ENTRANCE	18	54	31.00	131	04.00	78	07	10	08	158				X	XBT		
DIXON ENTRANCE	19	54	29.00	131	08.00	78	07	10	12	128	128			X	XBT		
DIXON ENTRANCE	20	54	27.00	131	12.00	78	07	10	14	125	125			X	XBT		
DIXON ENTRANCE	21	54	15.00	131	17.00	78	07	11	10	137	137			X	XBT		
DIXON ENTRANCE	22	54	14.00	131	18.00	78	07	11	11	133	133			X	XBT		
DIXON ENTRANCE	23	54	16.00	131	58.00	78	07	11	13	200	200			X	XBT		
DIXON ENTRANCE	24	54	12.00	131	52.00	78	07	11	15	106	106			X	XBT		
DIXON ENTRANCE	25	54	14.00	131	43.00	78	07	11	16	98	98			X	XBT		
DIXON ENTRANCE	26	54	14.00	131	40.00	78	07	11	17	70				X	XBT		
DIXON ENTRANCE	27	54	37.00	132	09.00	78	07	12	09	157	157			X	XBT		

BOTTLE/CTD DATA SET NUMBER: 78-0053
YEAR:1978 VESSEL/AGENCY: G.B.REED

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
Q.C. SOUND	1	51	06.00	128	04.00	78	07	29	09	140	140			X	XBT		
Q.C. SOUND	2	51	13.00	128	36.00	78	07	29	12	192	192			X	XBT		
Q.C. SOUND	3	51	24.00	128	45.00	78	07	29	13	214	214	X		X	BOT		
Q.C. SOUND	4	51	20.00	128	58.00	78	07	29	14	240	240			X	XBT		

Q.C. SOUND	5	51	16.00	129	10.00	78	07	29	15	260	260			X	XBT		
Q.C. SOUND	6	51	10.00	129	28.00	78	07	29	16	280	280			X	XBT		
Q.C. SOUND	7	51	05.00	129	43.00	78	07	29	18	481	540	X		X	BOT		
Q.C. SOUND	8	51	15.00	129	48.00	78	07	29	19	450	470			X	XBT		
Q.C. SOUND	9	51	29.00	129	54.00	78	07	29	22	228	228	X		X	BOT		
Q.C. SOUND	10	51	40.00	130	00.00	78	07	30	23	352	352	X		X	BOT		
Q.C. SOUND	11	51	47.00	129	52.00	78	07	30	00	312	312			X	XBT		
Q.C. SOUND	12	51	53.00	129	40.00	78	07	30	01	236	236			X	XBT		
Q.C. SOUND	13	52	00.00	129	30.00	78	07	30	03	205	205	X		X	BOT		
Q.C. SOUND	14	52	00.00	129	49.00	78	07	30	04	115	115			X	XBT		
Q.C. SOUND	15	52	00.00	130	08.00	78	07	30	05	159	159			X	XBT		
Q.C. SOUND	16	52	00.00	130	30.00	78	07	30	06	353	353	X		X	BOT		
HECATE STRAIT	17	52	10.00	130	22.00	78	07	30	07	366	366			X	XBT		
HECATE STRAIT	18	52	20.00	130	15.00	78	07	30	08	366	366			X	XBT		
HECATE STRAIT	19	52	30.00	130	06.00	78	07	30	09	283	283	X		X	BOT		
Q.C. SOUND	1A	51	08.00	128	17.00	78	07	29	11	165	165			X	XBT		
HECATE STRAIT	20	52	40.00	130	09.00	78	07	30	10	232	232			X	XBT		
HECATE STRAIT	21	52	50.00	130	12.00	78	07	30	11	245	245			X	XBT		
HECATE STRAIT	22	53	00.00	130	15.00	78	07	30	12	220	220			X	XBT		
HECATE STRAIT	23	53	09.00	130	29.00	78	07	30	13	207	207			X	XBT		
HECATE STRAIT	24	53	17.00	130	43.00	78	07	30	14	181	181	X		X	BOT		
HECATE STRAIT	25	53	25.00	130	44.00	78	07	30	16	116	116			X	XBT		
HECATE STRAIT	26	53	35.00	130	45.00	78	07	30	16	180	180	X		X	BOT		
HECATE STRAIT	27	53	44.00	130	46.00	78	07	30	17	126	126	X		X	BOT		
HECATE STRAIT	28	53	52.00	130	53.00	78	07	30	18	91	91	X		X	BOT		
HECATE STRAIT	29	54	00.00	131	00.00	78	07	30	19	63	63	X		X	BOT		
HECATE STRAIT	30	54	09.00	131	01.00	78	07	30	20	105	105	X		X	BOT		
DIXON ENTRANCE	31	54	18.00	131	02.00	78	07	30	21	106	106	X		X	BOT		
DIXON ENTRANCE	32	54	20.00	131	22.00	78	07	30	22	160	160			X	XBT		
DIXON ENTRANCE	33	54	23.00	131	41.00	78	07	31	00	247	247			X	XBT		
DIXON ENTRANCE	34	54	25.00	132	00.00	78	07	31	01	307	307			X	XBT		
DIXON ENTRANCE	35	54	23.00	132	21.00	78	07	31	02	143				X	XBT		
DIXON ENTRANCE	36	54	19.00	132	51.00	78	07	31	04	373	373			X	XBT		
DIXON ENTRANCE	52	54	20.00	133	10.00	78	08	01	20	457	457			X	XBT		
DIXON ENTRANCE	53	54	20.00	133	00.00	78	08	01	21	475	475	X		X	BOT		
DIXON ENTRANCE	56	54	19.00	133	07.00	78	08	08	08	460	472			X	XBT		
Q.C. SOUND	62	51	48.00	130	58.00	78	08	09	01	1210	1210			X	XBT		
Q.C. SOUND	63	51	41.00	130	34.00	78	08	09	02	1130	1130			X	XBT		

BOTTLE/CTD DATA SET NUMBER: 78-0054
YEAR:1978 VESSEL/AGENCY: PBS,G.B.REED

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q.C. SOUND	1	51	05.00	128	19.00	78	08	30	05	173	173			X	XBT		
Q.C. SOUND	2	51	13.00	128	35.00	78	08	30	06	198	198			X	XBT		
Q.C. SOUND	3	51	20.00	128	58.00	78	08	30	08	240	240			X	XBT		
Q.C. SOUND	4	51	18.00	129	18.00	78	08	30	17	275	280			X	XBT		
Q.C. SOUND	5	51	20.00	129	19.00	78	08	30	17	250	250			X	XBT		
Q.C. SOUND	6	51	20.00	129	19.00	78	08	30	17	208	208			X	XBT		
Q.C. SOUND	7	51	22.00	129	23.00	78	08	30	18	175	176			X	XBT		
Q.C. SOUND	8	51	24.00	129	23.00	78	08	30	18	142	142			X	XBT		
Q.C. SOUND	9	51	15.00	129	11.00	78	08	30	19	268	268	X		X	BOT		
Q.C. SOUND	10	51	10.00	129	27.00	78	08	30	20	278	278			X	XBT		
Q.C. SOUND	11	51	05.00	129	43.00	78	08	30	22	556	604	X		X	BOT		
Q.C. SOUND	12	51	15.00	129	48.00	78	08	30	23	460	585			X	XBT		
Q.C. SOUND	13	51	29.00	129	54.00	78	08	31	00	165	176			X	XBT		
Q.C. SOUND	14	51	40.00	130	00.00	78	08	31	06	351	351	X		X	BOT		
Q.C. SOUND	15	51	43.00	129	47.00	78	08	31	10	312	312			X	XBT		
Q.C. SOUND	16	51	48.00	129	37.00	78	08	31	12	274	274			X	XBT		
Q.C. SOUND	17	51	51.00	129	28.00	78	08	31	13	200	200			X	XBT		
Q.C. SOUND	18	51	55.00	129	19.00	78	08	31	16	212	212			X	XBT		
Q.C. SOUND	19	52	00.00	129	29.00	78	08	31	22	220	220			X	XBT		
Q.C. SOUND	20	52	00.00	129	48.00	78	08	31	23	117	117			X	XBT		
Q.C. SOUND	21	52	00.00	130	08.00	78	09	01	00	164	164			X	XBT		
Q.C. SOUND	22	52	00.00	130	29.00	78	09	01	06	351	351	X		X	BOT		
HECATE STRAIT	23	52	10.00	130	21.00	78	09	01	15	370	370			X	XBT		
HECATE STRAIT	24	52	20.00	130	15.00	78	09	01	16	369	369	X		X	BOT		
HECATE STRAIT	25	52	30.00	130	06.00	78	09	01	17	283	283			X	XBT		
HECATE STRAIT	26	52	40.00	130	09.00	78	09	01	18	240	240			X	XBT		
HECATE STRAIT	27	52	50.00	130	12.00	78	09	01	19	231	231			X	XBT		
HECATE STRAIT	28	53	00.00	130	15.00	78	09	01	20	225	225			X	XBT		
HECATE STRAIT	29	53	09.00	130	28.00	78	09	01	21	210	210			X	XBT		
HECATE STRAIT	30	53	17.00	130	42.00	78	09	01	22	192	192			X	XBT		

HECATE STRAIT	31	52	00.00	130	26.00	78	09	02	11	418	418			X	XBT		
HECATE STRAIT	32	52	15.00	130	15.00	78	09	04	18	433	433			X	XBT		
HECATE STRAIT	33	52	20.00	130	21.00	78	09	04	19	274	274			X	XBT		
HECATE STRAIT	34	52	20.00	130	22.00	78	09	04	19	246	246			X	XBT		
HECATE STRAIT	35	52	20.00	130	22.00	78	09	04	19	226	226			X	XBT		
HECATE STRAIT	36	52	20.00	130	28.00	78	09	04	19	204	204			X	XBT		
HECATE STRAIT	37	52	20.00	130	30.00	78	09	04	20	175	175			X	XBT		
HECATE STRAIT	38	52	24.00	130	59.00	78	09	05	12	245	245			X	XBT		
HECATE STRAIT	39	52	23.00	130	04.00	78	09	05	13	275	280			X	XBT		
HECATE STRAIT	40	52	23.00	130	07.00	78	09	05	13	280	280	X		X	BOT		
HECATE STRAIT	41	52	29.00	129	56.00	78	09	06	17	242	242			X	XBT		
HECATE STRAIT	42	52	31.00	130	29.00	78	09	07	09	179	179			X	XBT		
HECATE STRAIT	43	52	50.00	130	20.00	78	09	08	16	210	210			X	XBT		
HECATE STRAIT	44	53	25.00	130	44.00	78	09	10	17	135	135			X	XBT		
HECATE STRAIT	45	53	35.00	130	45.00	78	09	10	19	135	135			X	XBT		
HECATE STRAIT	46	53	44.00	130	45.00	78	09	10	20	122	122			X	XBT		
HECATE STRAIT	47	53	51.00	130	53.00	78	09	10	21	98	98			X	XBT		
HECATE STRAIT	48	54	00.00	130	59.00	78	09	10	22	63	63			X	XBT		
HECATE STRAIT	49	54	09.00	131	02.00	78	09	10	23	115	115			X	XBT		
HECATE STRAIT	50	54	17.00	131	02.00	78	09	11	00	105	105			X	XBT		
HECATE STRAIT	51	53	00.00	130	45.00	78	09	13	15	104	104			X	XBT		
HECATE STRAIT	52	53	00.00	130	15.00	78	09	16	16	225	225			X	XBT		
HECATE STRAIT	53	52	50.00	130	12.00	78	09	16	17	206	206			X	XBT		
HECATE STRAIT	54	52	40.00	130	09.00	78	09	16	18	245	245			X	XBT		
HECATE STRAIT	55	52	30.00	130	06.00	78	09	16	19	275				X	XBT		
HECATE STRAIT	56	52	30.00	130	06.00	78	09	16	19	283	283	X		X	BOT		
HECATE STRAIT	57	52	20.00	130	15.00	78	09	16	20	375	375			X	XBT		
HECATE STRAIT	58	52	10.00	130	21.00	78	09	16	21	373	373			X	XBT		
Q.C. SOUND	59	52	00.00	130	29.00	78	09	16	23	380	380	X		X	BOT		
Q.C. SOUND	60	52	00.00	130	20.00	78	09	17	16	360	360			X	XBT		
Q.C. SOUND	61	52	00.00	130	08.00	78	09	17	17	164	164			X	XBT		
Q.C. SOUND	62	52	00.00	129	48.00	78	09	17	18	124	124			X	XBT		
Q.C. SOUND	63	52	00.00	129	29.00	78	09	17	19	210	210	X		X	BOT		
Q.C. SOUND	64	51	53.00	129	40.00	78	09	17	20	235	235			X	XBT		
Q.C. SOUND	65	51	47.00	129	49.00	78	09	17	21	323	323			X	XBT		
Q.C. SOUND	66	51	40.00	130	00.00	78	09	17	22	355	355	X		X	BOT		
Q.C. SOUND	67	51	29.00	129	54.00	78	09	17	23	218	218			X	XBT		
Q.C. SOUND	68	51	15.00	129	48.00	78	09	18	01	320				X	XBT		
Q.C. SOUND	69	51	05.00	129	43.00	78	09	18	02	549	618	X		X	BOT		
Q.C. SOUND	70	51	10.00	129	27.00	78	09	18	15	278	278			X	XBT		
Q.C. SOUND	71	51	15.00	129	11.00	78	09	18	16	267	267			X	XBT		
Q.C. SOUND	72	51	20.00	128	58.00	78	09	18	17	235	235			X	XBT		

BOTTLE/CTD DATA SET NUMBER: 78-0055
YEAR:1978 VESSEL/AGENCY: PBS,A.HARVESTER

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO	DEPTH	MEAS				HR	
										(M)	(M)	C	S	T			
Q.C. SOUND	3	51	02.00	128	01.00	78	09	22	13	143	143			X	XBT		
Q.C. SOUND	4	51	23.00	129	18.00	78	09	23	15	132	132			X	XBT		
Q.C. SOUND	5	51	21.00	129	14.00	78	09	23	18	212	212			X	XBT		
Q.C. SOUND	6	51	18.00	129	23.00	78	09	24	09	253	253			X	XBT		
HECATE STRAIT	7	52	18.00	130	15.00	78	09	24	18	375	375			X	XBT		
HECATE STRAIT	8	52	34.00	130	12.00	78	09	24	19	268	268			X	XBT		
HECATE STRAIT	9	52	46.00	130	07.00	78	09	24	20	225	225			X	XBT		
HECATE STRAIT	10	53	06.00	130	19.00	78	09	24	22	195	195			X	XBT		

BOTTLE/CTD DATA SET NUMBER: 78-0056
YEAR:1978 VESSEL/AGENCY: PBS,G.B.REED

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO	DEPTH	MEAS				HR	
										(M)	(M)	C	S	T			
Q.C. SOUND	1	51	13.00	129	24.00	78	10	21	05	284	284			X	XBT		
Q.C. SOUND	2	51	20.00	129	06.00	78	10	21	06	250	250			X	XBT		
Q.C. SOUND	3	51	23.00	128	47.00	78	10	21	08	223	223			X	XBT		

Q.C. SOUND	4	51 16.00	128 43.00	78 10 21 08	195	195			X	XBT	
Q.C. SOUND	5	51 07.00	128 19.00	78 10 21 10	186	186			X	XBT	
Q.C. SOUND	6	51 01.00	128 07.00	78 10 21 11	132	132			X	XBT	

BOTTLE/CTD DATA SET NUMBER: 79-0036A
YEAR:1979 VESSEL/AGENCY: UBC,IMP.TOFINO

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
B.C. COASTAL	5	51 47.	127 55.	79 05 11 03	3	333	X		X		
B.C. COASTAL	6	52 20.	128 30.	79 05 11 11	3	225	X		X		
B.C. COASTAL	7	53 11.	128 48.	79 05 11 17	3	432	X		X		
B.C. COASTAL	8	53 05.	130 02.	79 05 12 02	3	90	X		X		
B.C. COASTAL	9	53 24.	131 33.	79 05 12 07	3	18	X		X		
B.C. COASTAL	10	54 00.	130 46.	79 05 13 03	3	90	X		X		
B.C. COASTAL	11	54 11.	130 21.	79 05 13 05	3	54	X		X		
B.C. COASTAL	12	54 51.	130 13.	79 05 14 00	3	423	X		X		
B.C. COASTAL	13	54 34.	130 30.	79 05 14 06	3	171	X		X		
B.C. COASTAL	14	53 42.	129 47.	79 05 15 03	3	180	X		X		
B.C. COASTAL	15	53 24.	129 13.	79 05 15 07	3	405	X		X		
B.C. COASTAL	16	53 11.	128 48.	79 05 15 21	3	432	X		X		
B.C. COASTAL	17	52 21.	128 31.	79 05 16 04	3	180	X		X		
B.C. COASTAL	18	51 24.	127 50.	79 05 16 14	3	108	X		X		
B.C. COASTAL	19	51 09.	127 48.	79 05 16 22	3	59	X		X		

BOTTLE/CTD DATA SET NUMBER: 79-0036B
YEAR:1979 VESSEL/AGENCY: UBC,IMP. TOFINO

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
	8	51 10.	127 50.	79 06 24 03	3	95	X		X		
	9	51 23.	127 49.	79 06 24 14	3	90	X		X		
	10	51 47.	127 55.	79 06 25 03	3	308	X		X		
	11	53 11.	128 43.	79 06 25 21	3	540	X		X		
	12	53 22.	129 13.	79 06 26 10	3	378	X		X		
DIXON ENTRANCE	13	54 36.	130 32.	79 06 27 14	3	284	X		X		
DIXON ENTRANCE	14	54 30.	131 05.	79 06 27 17	3	139	X		X		
DIXON ENTRANCE	15	54 14.	131 16.	79 06 27 19	3	25	X		X		
	16	53 18.	131 56.	79 06 28 01	3	49	X		X		
	17	53 42.	131 17.	79 06 28 15	3	29	X		X		
	18	53 53.	130 59.	79 06 28 17	3	72	X		X		
	19	54 09.	130 24.	79 06 28 20	3	90	X		X		
	20	52 17.	128 29.	79 06 30 15	3	157	X		X		

BOTTLE/CTD DATA SET NUMBER: 79-0036C
YEAR:1979 VESSEL/AGENCY: UBC,IMP. TOFINO

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
	4	51 15.	127 49.	79 07 17 10	3	90	X		X		
	5	51 47.	127 55.	79 07 17 17	3	308	X		X		
	6	52 25.	128 30.	79 07 18 19	3	450	X		X		
DIXON ENTRANCE	7	54 15.	131 47.	79 07 21 16	3	162	X		X		
DIXON ENTRANCE	8	54 13.	132 26.	79 07 21 18	3	126	X		X		
DIXON ENTRANCE	11	54 18.	131 16.	79 07 22 22	3	63	X		X		
PORTLAND INLET	12	54 51.	130 13.	79 07 24 04	3	423	X		X		

DIXON ENTRANCE	13	54	09.	130	23.	79	07	25	00	3	63	X		X			
DIXON ENTRANCE	14	54	00.	130	46.	79	07	25	02	3	90	X		X			
B.C. COASTAL	15	53	52.	131	00.	79	07	25	03	3	72	X		X			
B.C. COASTAL	16	53	41.	131	21.	79	07	25	05	3	22	X		X			
B.C. COASTAL	17	53	25.	131	52.	79	07	25	07	3	11	X		X			
B.C. COASTAL	18	53	10.	129	06.	79	07	26	19	3	504	X		X			
B.C. COASTAL	19	53	10.	128	39.	79	07	26	22	3	473	X		X			
B.C. COASTAL	20	51	10.	127	52.	79	07	28	07	3	126	X		X			

BOTTLE/CTD DATA SET NUMBER: 79-0036D
YEAR:1979 VESSEL/AGENCY: UBC,IMP. TOFINO

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q.C. SOUND	9	51	07.	127	49.	80	01	31	23	3	108	X		X			
Q.C. SOUND	10	51	11.	127	49.	80	02	01	00	3	108	X		X			
Q.C. SOUND	11	51	32.	127	52.	80	02	01	09	3	162	X		X			
Q.C. SOUND	12	51	47.	127	55.	80	02	01	11	3	360	X		X			
B.C. COASTAL	13	52	16.	128	25.	80	02	02	04	3	72	X		X			
B.C. COASTAL	14	52	21.	128	31.	80	02	02	04	3	234	X		X			
CHATHAM SOUND	15	54	08.	130	19.	80	02	02	19	3	72	X		X			
HECATE STRAIT	16	53	43.	130	25.	80	02	03	11	3	90	X		X			
HECATE STRAIT	17	53	41.	130	34.	80	02	03	11	3	45	X		X			
HECATE STRAIT	18	53	39.	130	42.	80	02	03	12	3	144	X		X			
HECATE STRAIT	19	53	37.	130	51.	80	02	03	12	3	63	X		X			
HECATE STRAIT	20	53	36.	130	59.	80	02	03	13	3	45	X		X			
HECATE STRAIT	21	53	32.	131	14.	80	02	03	14	3	27	X		X			
HECATE STRAIT	22	53	17.	131	54.	80	02	04	09	3	45	X		X			
HECATE STRAIT	23	53	25.	131	50.	80	02	04	10	3	9	X		X			
HECATE STRAIT	24	53	27.	131	41.	80	02	04	10	3	20	X		X			
HECATE STRAIT	25	53	29.	131	37.	80	02	04	11	3	20	X		X			
HECATE STRAIT	26	53	33.	131	21.	80	02	04	12	3	22	X		X			
HECATE STRAIT	27	53	37.	131	07.	80	02	04	13	3	36	X		X			
CHATHAM SOUND	28	54	25.	130	34.	80	02	05	19	3	90	X		X			
CHATHAM SOUND	29	54	12.	130	28.	80	02	05	20	3	90	X		X			
GRENVILLE CH.	30	53	41.	129	49.	80	02	06	00	3	108	X		X			
GRENVILLE CH.	31	53	21.	129	14.	80	02	06	03	3	490	X		X			
B.C. COASTAL	32	53	38.	128	35.	80	02	06	16	3	468	X		X			
B.C. COASTAL	33	52	18.	128	28.	80	02	06	23	3	108	X		X			
Q.C. SOUND	34	51	30.	128	15.	80	02	07	06	3	90	X		X			
Q.C. SOUND	35	51	17.	128	18.	80	02	07	07	3	72	X		X			
Q.C. SOUND	36	50	52.	128	13.	80	02	08	04	3	36	X		X			

BOTTLE/CTD DATA SET NUMBER: 79-0036E
YEAR:1979 VESSEL/AGENCY: UBC,IMP. TOFINO

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
B.C. COASTAL	7	51	00.	127	51.	80	04	11	10	3	126	X		X			
B.C. COASTAL	8	51	05.	128	07.	80	04	11	11	3	157	X		X			
B.C. COASTAL	9	51	09.	128	19.	80	04	11	12	3	139	X		X			
B.C. COASTAL	10	51	13.	128	34.	80	04	11	13	3	171	X		X			
B.C. COASTAL	11	51	39.	130	03.	80	04	11	19	3	432	X		X			
B.C. COASTAL	12	51	45.	130	22.	80	04	11	21	3	223	X		X			
B.C. COASTAL	13	51	46.	130	25.	80	04	12	00	3	144	X		X			
DIXON ENTRANCE	18	54	13.	132	26.	80	04	13	06	3	90	X		X			
DIXON ENTRANCE	19	54	14.	132	09.	80	04	13	07	3	126	X		X			
DIXON ENTRANCE	20	54	16.	131	30.	80	04	13	09	3	151	X		X			
HECATE STRAIT	21	53	30.	131	40.	80	04	14	05	3	18	X		X			
HECATE STRAIT	22	53	36.	131	30.	80	04	14	06	3	18	X		X			
HECATE STRAIT	23	53	44.	131	18.	80	04	14	07	3	36	X		X			
HECATE STRAIT	24	53	51.	131	02.	80	04	14	08	3	72	X		X			
HECATE STRAIT	25	53	59.	130	47.	80	04	14	09	3	18	X		X			
CHATHAM SOUND	26	54	31.	130	31.	80	04	15	02	3	144	X		X			
CHATHAM SOUND	27	54	24.	130	34.	80	04	15	03	3	126	X		X			

CHATHAM SOUND	28	54 06.	130 22.	80 04 15 04	3	108	X		X
B.C. COASTAL	29	53 07.	128 35.	80 04 15 22	3	360	X		X
B.C. COASTAL	30	52 20.	128 30.	80 04 16 05	3	173	X		X
B.C. COASTAL	31	51 52.	127 55.	80 04 17 00	3	306	X		X
B.C. COASTAL	32	51 22.	127 50.	80 04 17 01	3	34	X		X
B.C. COASTAL	33	51 11.	127 58.	80 04 17 04	3	36	X		X
Q.C. SOUND	34	51 05.	128 05.	80 04 17 05	3	126	X		X
Q.C. SOUND	35	51 00.	128 10.	80 04 17 05	3	180	X		X
Q.C. SOUND	36	50 54.	128 17.	80 04 17 06	3	36	X		X
Q.C. SOUND	37	50 51.	128 22.	80 04 17 06	3	36	X		X

BOTTLE/CTD DATA SET NUMBER: 79-0036F
YEAR:1979 VESSEL/AGENCY: UBC,IMP. TOFINO

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
B.C. COASTAL	11	51 39.	127 54.	80 06 01 11	3	292	X		X			
B.C. COASTAL	12	51 47.	127 55.	80 06 01 12	3	360	X		X			
B.C. COASTAL	13	52 13.	128 09.	80 06 01 18	3	108	X		X			
B.C. COASTAL	14	52 23.	128 30.	80 06 01 20	3	216	X		X			
B.C. COASTAL	15	53 10.	128 38.	80 06 02 02	3	486	X		X			
B.C. COASTAL	16	53 19.	129 08.	80 06 02 04	3	270	X		X			
DIXON ENTRANCE	17	54 07.	130 18.	80 06 02 13	3	65	X		X			
HECATE STRAIT	18	53 59.	130 48.	80 06 02 23	3	22	X		X			
HECATE STRAIT	19	53 46.	131 15.	80 06 03 01	3	41	X		X			
HECATE STRAIT	20	53 29.	131 47.	80 06 03 03	3	14	X		X			
HECATE STRAIT	21	53 28.	131 33.	80 06 03 18	3	18	X		X			
HECATE STRAIT	22	53 33.	131 02.	80 06 03 21	3	34	X		X			
HECATE STRAIT	23	53 50.	130 19.	80 06 04 02	3	180	X		X			
DIXON ENTRANCE	24	54 37.	130 42.	80 06 04 15	3	54	X		X			
DIXON ENTRANCE	25	54 20.	130 34.	80 06 04 22	3	56	X		X			
DIXON ENTRANCE	26	54 10.	130 23.	80 06 05 00	3	90	X		X			
B.C. COASTAL	27	53 35.	129 40.	80 06 05 04	3	90	X		X			
B.C. COASTAL	28	52 17.	128 27.	80 06 05 20	3	72	X		X			
B.C. COASTAL	29	51 26.	127 49.	80 06 06 08	3	108	X		X			
B.C. COASTAL	30	51 07.	128 00.	80 06 06 09	3	117	X		X			

BOTTLE/CTD DATA SET NUMBER: 79-0051
YEAR:1979 VESSEL/AGENCY: EPS

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
PORPOISE HBR	B10	54 13.19	130 17.60	79 06 03 22	25		X		X	PLES		
PORPOISE HBR	B10	54 13.19	130 17.60	79 06 04 19	25		X		X	PLES		
PORPOISE HBR	B13	54 11.90	130 18.58	79 06 03 23	25		X		X	PLES		
PORPOISE HBR	B13	54 11.90	130 18.58	79 06 04 18	25		X		X	PLES		
PORPOISE HBR	P12	54 13.22	130 17.63	79 06 04 00	15		X		X	PLES		
PORPOISE HBR	P12	54 13.22	130 17.63	79 06 04 20	20		X		X	PLES		
PORPOISE HBR	P17	54 15.03	130 16.95	79 06 04 21	20		X		X	PLES		
PORPOISE HBR	P18	54 14.25	130 18.40	79 06 04 01	15		X		X	PLES		
PORPOISE HBR	P18	54 14.25	130 18.40	79 06 04 20	15		X		X	PLES		
PORPOISE HBR	P20	54 12.10	130 18.30	79 06 03 23	25		X		X	PLES		
PORPOISE HBR	P20	54 12.10	130 18.30	79 06 04 18	25		X		X	PLES		
PORPOISE HBR	PH1	54 14.55	130 18.34	79 06 04 02	25		X		X	PLES		
PORPOISE HBR	PH1	54 14.55	130 18.34	79 06 04 21	20		X		X	PLES		
PORPOISE HBR	PH2	54 12.51	130 17.72	79 06 04 00	25		X		X	PLES		
PORPOISE HBR	PH2	54 12.51	130 17.72	79 06 04 19	25		X		X	PLES		
PORPOISE HBR	PH3	54 13.90	130 18.05	79 06 04 01	20		X		X	PLES		
PORPOISE HBR	PH3	54 13.90	130 18.05	79 06 04 20	20		X		X	PLES		

BOTTLE/CTD DATA SET NUMBER: 79-0052
YEAR:1979 VESSEL/AGENCY: PBS,A.HARVESTER

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
DIXON ENTRANCE	1	54	09.00	131	04.00	79	01	27	16	100	100			X	XBT		
DIXON ENTRANCE	2	54	08.00	131	04.00	79	01	27	18	82	82			X	XBT		
DIXON ENTRANCE	3	54	19.00	131	16.00	79	01	28	00	108	108			X	XBT		
DIXON ENTRANCE	4	54	24.00	131	17.00	79	01	28	03	162	162			X	XBT		
DIXON ENTRANCE	5	54	13.00	131	45.00	79	01	28	16	100	100			X	XBT		
DIXON ENTRANCE	6	54	16.00	131	39.00	79	01	28	18	138	138			X	XBT		
DIXON ENTRANCE	7	54	19.00	131	33.00	79	01	28	20	170	170			X	XBT		
DIXON ENTRANCE	8	54	24.00	131	14.00	79	01	28	23	130	130			X	XBT		
DIXON ENTRANCE	9	54	27.00	131	05.00	79	01	29	17	150	150			X	XBT		
DIXON ENTRANCE	10	54	30.00	131	17.00	79	01	29	21	95	95			X	XBT		
DIXON ENTRANCE	11	54	24.00	131	19.00	79	01	30	01	0				X	XBT		
DIXON ENTRANCE	12	54	37.00	131	28.00	79	01	30	01	175	175			X	XBT		
DIXON ENTRANCE	13	54	39.00	131	37.00	79	01	30	21	178	178			X	XBT		
DIXON ENTRANCE	14	54	38.00	132	00.00	79	01	30	00	50				X	XBT		
DIXON ENTRANCE	15	54	38.00	132	05.00	79	01	31	05	60	60			X	XBT		
DIXON ENTRANCE	16	54	15.00	131	34.00	79	02	01	18	50	50			X	XBT		
DIXON ENTRANCE	17	54	19.00	131	28.00	79	02	01	19	144	144			X	XBT		
DIXON ENTRANCE	18	54	25.00	131	17.00	79	02	01	22	210	210			X	XBT		
DIXON ENTRANCE	19	54	23.00	131	20.00	79	02	01	23	155	155			X	XBT		
DIXON ENTRANCE	20	54	21.00	131	25.00	79	02	01	02	200	200			X	XBT		
DIXON ENTRANCE	21	54	09.00	131	03.00	79	02	01	22	97	97			X	XBT		
DIXON ENTRANCE	23	54	21.00	131	07.00	79	02	03	19	91	91			X	XBT		
DIXON ENTRANCE	24	54	24.00	131	16.00	79	02	03	21	90	90			X	XBT		
DIXON ENTRANCE	25	54	19.00	131	17.00	79	02	03	23	95	95			X	XBT		
DIXON ENTRANCE	26	54	09.00	131	48.00	79	02	04	16	40	40			X	XBT		
DIXON ENTRANCE	27	54	12.00	131	48.00	79	02	04	18	108	108			X	XBT		
DIXON ENTRANCE	28	54	13.00	131	53.00	79	02	04	19	131	131			X	XBT		
DIXON ENTRANCE	29	54	16.00	131	18.00	79	02	05	19	129	129			X	XBT		
DIXON ENTRANCE	31	54	21.00	131	18.00	79	02	05	23	135	135			X	XBT		
DIXON ENTRANCE	32	54	21.00	131	09.00	79	02	06	01	70	70			X	XBT		
DIXON ENTRANCE	33	54	21.00	131	03.00	79	02	06	16	94	94			X	XBT		
DIXON ENTRANCE	34	54	25.00	131	27.00	79	02	06	19	274	274			X	XBT		
DIXON ENTRANCE	35	54	32.00	131	41.00	79	02	06	22	334	334			X	XBT		
DIXON ENTRANCE	30A	54	23.00	131	20.00	79	02	05	20	180	180			X	XBT		
DIXON ENTRANCE	30B	54	23.00	131	20.00	79	02	05	20	143				X	XBT		

BOTTLE/CTD DATA SET NUMBER: 79-0053
YEAR:1979 VESSEL/AGENCY: PBS,SCOTIA BAY

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
HECATE STRAIT	1	54	10.00	130	30.00	79	03	13	10	100	100			X	XBT		
HECATE STRAIT	2	52	52.00	131	50.00	79	03	14	13	111	111			X	XBT		
HECATE STRAIT	3	52	48.00	131	48.00	79	03	14	17	50				X	XBT		
HECATE STRAIT	4	54	17.00	131	02.00	79	03	19	10	114	114			X	XBT		
HECATE STRAIT	5	54	01.00	131	03.00	79	03	21	10	96	96			X	XBT		
PORTLAND INLET	6	54	40.00	130	48.00	79	03	23	08	360	360			X	XBT		
PORTLAND INLET	7	54	49.00	130	12.00	79	03	23	14	355	355			X	XBT		
PORTLAND INLET	12	55	25.00	129	43.00	79	03	28	16	167	167			X	XBT		
HECATE STRAIT	13	53	48.00	130	55.00	79	03	29	09	70	70			X	XBT		

BOTTLE/CTD DATA SET NUMBER: 79-0056A
YEAR:1979 VESSEL/AGENCY: G.B.REED

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q.C. SOUND	1	51	07.00	128	20.00	79	06	27	10	188	188			X	XBT		
Q.C. SOUND	2	51	15.00	128	40.00	79	06	27	11	196	196			X	XBT		
Q.C. SOUND	3	51	33.00	128	13.00	79	06	27	13	95	95			X	XBT		
Q.C. SOUND	4	51	26.00	128	25.00	79	06	27	14	192	192			X	XBT		
Q.C. SOUND	5	51	26.00	128	29.00	79	06	27	15	202	202	X		X	BOT		
Q.C. SOUND	6	51	24.00	128	43.00	79	06	27	16	220	220			X	XBT		
Q.C. SOUND	7	51	18.50	129	00.00	79	06	27	17	244	244			X	XBT		
Q.C. SOUND	8	51	13.00	129	17.00	79	06	27	18	282	282			X	XBT		
Q.C. SOUND	9	51	07.00	129	37.00	79	06	27	20	439	439	X		X	BOT		
Q.C. SOUND	10	51	21.00	129	49.00	79	06	27	22	289	289			X	XBT		
Q.C. SOUND	11	51	36.50	130	02.00	79	06	28	23	318	318			X	XBT		
Q.C. SOUND	12	51	48.00	130	16.00	79	06	28	00	209	209			X	XBT		
Q.C. SOUND	13	52	00.00	130	30.00	79	06	28	02	364	364			X	XBT		
HECATE STRAIT	14	52	10.00	130	22.00	79	06	28	03	370	370			X	XBT		
HECATE STRAIT	15	52	20.00	130	15.00	79	06	28	04	362	362			X	XBT		
HECATE STRAIT	16	52	30.00	130	15.00	79	06	28	05	284	284			X	XBT		
HECATE STRAIT	17	52	40.00	130	09.00	79	06	28	06	242	242			X	XBT		
HECATE STRAIT	18	52	50.00	130	11.00	79	06	28	06	225	226			X	XBT		
HECATE STRAIT	19	53	00.00	130	12.00	79	06	28	08	75	218	X		X	BOT		
HECATE STRAIT	20	53	09.00	130	28.00	79	06	28	09	205	205			X	XBT		
HECATE STRAIT	21	53	17.00	130	42.00	79	06	28	11	195	195			X	XBT		
HECATE STRAIT	24	54	07.00	131	02.00	79	06	29	21	110	110			X	XBT		
HECATE STRAIT	25	53	57.00	131	01.00	79	06	29	22	92	92			X	XBT		
HECATE STRAIT	26	53	50.00	130	52.00	79	06	30	23	99	99			X	XBT		
HECATE STRAIT	27	53	43.00	130	43.00	79	06	30	00	147	147			X	XBT		
DIXON ENTRANCE	28	54	17.00	131	02.00	79	06	30	17	122	122			X	XBT		
DIXON ENTRANCE	29	54	20.00	131	05.00	79	06	30	17	100	113			X	XBT		
DIXON ENTRANCE	30	54	26.00	131	05.00	79	06	30	18	140	140			X	XBT		
DIXON ENTRANCE	31	54	33.00	131	20.00	79	06	30	19	113	113			X	XBT		
HECATE STRAIT	32	54	05.00	131	00.00	79	07	03	20	108	108	X		X	BOT		
HECATE STRAIT	33	53	50.00	130	50.00	79	07	03	22	100	100	X		X	BOT		
HECATE STRAIT	34	53	38.30	131	03.00	79	07	06	12	60		X		X	BOT		
HECATE STRAIT	35	53	00.00	131	00.00	79	07	07	17	29	29	X		X	BOT		
HECATE STRAIT	36	53	00.00	130	31.00	79	07	07	19	145	145	X		X	BOT		
HECATE STRAIT	37	52	59.30	130	25.00	79	07	07	21	173	173	X		X	BOT		
HECATE STRAIT	38	52	55.50	130	37.00	79	07	08	08	95	95	X		X	BOT		
HECATE STRAIT	39	53	01.00	130	46.00	79	07	10	10	102	102	X		X	BOT		
HECATE STRAIT	40	53	00.00	131	20.00	79	07	10	14	26	26	X		X	BOT		
HECATE STRAIT	41	52	55.00	131	20.00	79	07	10	15	45	45	X		X	BOT		
HECATE STRAIT	42	52	55.00	131	00.00	79	07	10	17	38	38	X		X	BOT		
HECATE STRAIT	43	52	50.00	131	00.00	79	07	10	18	35	35			X	XBT		
HECATE STRAIT	44	52	50.00	131	20.00	79	07	10	20	95	95			X	XBT		
HECATE STRAIT	45	52	45.00	131	20.00	79	07	10	21	178	178			X	XBT		
HECATE STRAIT	46	52	45.00	131	00.00	79	07	11	09	43	43			X	XBT		
HECATE STRAIT	47	52	40.00	131	00.00	79	07	11	08	73	73			X	XBT		
HECATE STRAIT	48	52	35.30	131	00.00	79	07	11	14	116	116	X		X	BOT		
HECATE STRAIT	49	52	18.00	130	28.00	79	07	11	17	203	203			X	XBT		
HECATE STRAIT	50	52	11.00	130	13.00	79	07	11	18	200	200			X	XBT		
Q.C. SOUND	51	52	49.00	129	37.00	79	07	11	21	273	273			X	XBT		
Q.C. SOUND	32	52	22.00	128	52.00	79	07	12	01	224	224			X	XBT		
HECATE STRAIT	H-1	53	21.00	130	32.00	79	06	28	20	32	32	X		X	BOT		
HECATE STRAIT	H-2	53	25.50	131	15.00	79	06	28	21	30	30	X		X	BOT		
HECATE STRAIT	H-3	53	30.00	130	58.00	79	06	28	22	85	85	X		X	BOT		
HECATE STRAIT	H-4	53	34.00	130	44.00	79	06	29	23	140	140	X		X	BOT		
HECATE STRAIT	H-5	53	34.00	131	29.00	79	06	29	18	26	26	X		X	BOT		
HECATE STRAIT	H-6	54	10.00	131	13.00	79	06	29	19	26	26	X		X	BOT		
HECATE STRAIT	H-7	54	10.00	131	03.00	79	06	29	20	100	100	X		X	BOT		
HECATE STRAIT	H-8	54	10.00	130	54.00	79	06	29	20	103	103	X		X	BOT		

BOTTLE/CTD DATA SET NUMBER: 79-0056B
YEAR:1979 VESSEL/AGENCY: PBS,G.B.REED

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q.C. SOUND	1	51	07.00	128	20.00	79	09	07	09	180	180			X	XBT		
Q.C. SOUND	2	51	15.00	128	40.00	79	09	07	11	0	183			X	XBT		
Q.C. SOUND	3	51	24.00	128	43.00	79	09	07	12	208	208			X	XBT		
Q.C. SOUND	4	51	19.00	129	00.00	79	09	07	14	238	238			X	XBT		
Q.C. SOUND	5	51	13.00	129	17.00	79	09	07	15	283	283			X	XBT		
Q.C. SOUND	6	51	07.00	129	37.00	79	09	07	17	332	332	X		X	BOT		
Q.C. SOUND	7	51	21.00	129	49.00	79	09	07	18	230	230			X	XBT		
Q.C. SOUND	8	51	37.00	130	02.00	79	09	07	20	340	340	X		X	BOT		
Q.C. SOUND	9	51	48.00	130	16.00	79	09	07	21	211	211			X	XBT		
Q.C. SOUND	10	52	00.00	130	30.00	79	09	07	23	385	385	X		X	BOT		
HECATE STRAIT	11	52	10.00	130	22.00	79	09	08	00	120				X	XBT		
HECATE STRAIT	12	52	20.00	130	15.00	79	09	08	01	358	358			X	XBT		
HECATE STRAIT	13	52	30.00	130	07.00	79	09	08	02	290	290			X	XBT		
HECATE STRAIT	14	52	40.00	130	09.00	79	09	08	03	236	236			X	XBT		
HECATE STRAIT	15	52	50.00	130	11.00	79	09	08	04	235	235			X	XBT		
HECATE STRAIT	16	53	00.00	130	12.00	79	09	08	05	228	228	X		X	BOT		
HECATE STRAIT	17	53	09.00	130	28.00	79	09	08	07	193	193			X	BOT		
HECATE STRAIT	18	53	17.00	130	42.00	79	09	08	08	160	160			X	BOT		
HECATE STRAIT	19	53	30.00	130	46.00	79	09	08	09	162	162			X	BOT		
HECATE STRAIT	20	53	43.00	130	43.00	79	09	08	10	135	135			X	BOT		
HECATE STRAIT	21	53	50.00	130	52.00	79	09	08	11	96	96			X	BOT		
HECATE STRAIT	22	53	57.00	131	01.00	79	09	08	12	88	88			X	BOT		
HECATE STRAIT	23	54	07.00	131	02.00	79	09	08	13	117	117			X	BOT		
DIXON ENTRANCE	24	54	17.00	131	02.00	79	09	08	14	130	130			X	BOT		
DIXON ENTRANCE	25	54	20.00	131	05.00	79	09	08	14	94	94			X	XBT		
DIXON ENTRANCE	26	54	26.00	131	05.00	79	09	08	15	75				X	XBT		
DIXON ENTRANCE	27	54	33.00	131	20.00	79	09	08	16	114	114			X	XBT		
DIXON ENTRANCE	28	54	25.00	131	20.00	79	09	08	17	300	300			X	XBT		
DIXON ENTRANCE	29	54	25.00	131	20.00	79	09	11	15	238	238	X		X	BOT		
DIXON ENTRANCE	30	54	24.00	131	18.00	79	09	11	16	185	185			X	XBT		
DIXON ENTRANCE	31	54	24.00	131	17.00	79	09	11	17	160	160			X	XBT		
DIXON ENTRANCE	32	54	23.00	131	15.00	79	09	11	17	121	121			X	XBT		
DIXON ENTRANCE	33	54	23.00	131	13.00	79	09	11	17	84	84			X	XBT		
DIXON ENTRANCE	34	54	22.00	131	08.00	79	09	11	17	80	80			X	XBT		
DIXON ENTRANCE	35	54	21.00	131	06.00	79	09	11	18	100	100			X	XBT		
HECATE STRAIT	36	53	38.00	131	08.00	79	09	12	19	78	78			X	XBT		
HECATE STRAIT	37	53	34.00	131	09.00	79	09	12	14	78	78			X	XBT		
HECATE STRAIT	38	52	54.00	130	24.00	79	09	13	16	163	163			X	XBT		
HECATE STRAIT	39	52	54.00	130	26.00	79	09	13	17	135				X	XBT		
HECATE STRAIT	40	52	54.00	130	32.00	79	09	13	17	112	112			X	XBT		
HECATE STRAIT	41	52	54.00	130	37.00	79	09	13	18	101	101			X	XBT		
HECATE STRAIT	42	52	54.00	130	39.00	79	09	13	18	75	75			X	XBT		
HECATE STRAIT	43	52	54.00	130	45.00	79	09	13	18	60	60			X	XBT		
HECATE STRAIT	44	52	35.00	131	09.00	79	09	14	14	148	148			X	XBT		
HECATE STRAIT	45	52	40.00	131	00.00	79	09	14	15	76	76			X	XBT		
HECATE STRAIT	46	52	40.00	130	44.00	79	09	14	18	132	132			X	XBT		
HECATE STRAIT	47	52	58.00	131	00.00	79	09	15	16	35	35			X	XBT		
HECATE STRAIT	48	53	20.00	130	54.00	79	09	16	16	130	130			X	XBT		
HECATE STRAIT	49	53	20.00	131	10.00	79	09	16	18	34	34			X	XBT		
HECATE STRAIT	50	54	25.00	131	20.00	79	09	17	16	242	242	X		X	BOT		
HECATE STRAIT	51	53	10.00	131	46.00	79	09	19	14	149	149			X	XBT		
HECATE STRAIT	52	52	50.00	131	00.00	79	09	19	16	36	36			X	XBT		
HECATE STRAIT	53	52	28.00	130	10.00	79	09	19	21	298	298			X	XBT		
Q.C. SOUND	54	52	00.00	129	30.00	79	09	20	01	202	202			X	XBT		
Q.C. SOUND	55	51	24.00	128	42.00	79	09	20	05	211	211			X	XBT		
Q.C. SOUND	56	51	07.00	128	22.00	79	09	20	08	177	177			X	XBT		

BOTTLE/CTD DATA SET NUMBER: 79-0059
YEAR:1979 VESSEL/AGENCY: PBS,G.B.REED

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q.C. SOUND	38	51	24.00	128	35.00	79	05	14	07	211	211			X	XBT		
Q.C. SOUND	39	51	27.00	128	22.00	79	05	15	07	168	168			X	XBT		
Q.C. SOUND	40	51	37.00	128	23.00	79	05	15	14	157	157			X	XBT		
Q.C. SOUND	41	52	04.00	128	53.00	79	05	16	07	177	177			X	XBT		
Q.C. SOUND	42	51	59.00	128	47.00	79	05	16	11	173	173			X	XBT		

BOTTLE/CTD DATA SET NUMBER: 80-0042A
YEAR:1980 VESSEL/AGENCY: PBS,BEAK

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
MASSET INLET	12	53	40.20	132	12.60*	80	04	22	15	1			X		BOTT		
MASSET INLET	13	53	40.20	132	12.60	80	04	22	15	10			X		BOTT		
MASSET INLET	14	53	40.20	132	12.60	80	04	22	15	10			X		BOTT		
MASSET INLET	15	53	40.20	132	12.60	80	04	22	15	6			X		BOTT		
MASSET INLET	16	53	40.20	132	12.60	80	04	22	15				X		BOTT		
MASSET INLET	18	53	40.20	132	12.60	80	04	22	16	2			X		BOTT		
MASSET INLET	19	53	40.20	132	12.60	80	04	22	16	4			X		BOTT		
MASSET INLET	20	53	40.20	132	12.60	80	04	22	16	9			X		BOTT		
MASSET INLET	21	53	40.20	132	12.60	80	04	22	16	5			X		BOTT		
MASSET INLET	22	53	40.20	132	12.60	80	04	22	16	1			X		BOTT		
MASSET INLET	23	53	40.20	132	12.60	80	04	22	17	0			X		BOTT		

* Nominal

BOTTLE/CTD DATA SET NUMBER: 80-0043A
YEAR:1980 VESSEL/AGENCY: EPS

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
ALICE ARM	G	55	25.4	129	40.2	80	05	25				X		X	BOTT		
ALICE ARM	E5	55	27.80	129	29.25	80	05	24				X		X	BOTT		
ALICE ARM	M9	55	27.10	129	29.92	80	05	24				X		X	BOTT		
ALICE ARM	M49	55	24.7	129	40.10	80	05	25				X		X	BOTT		
ALICE ARM	Q20	55	26.70	129	31.84	80	05	22	22	250		X		X	BOTT		
ALICE ARM	Q20	55	26.70	129	31.84	80	05	23	01	250		X		X	BOTT		
ALICE ARM	Q20	55	26.70	129	31.84	80	05	23	03	250		X		X	BOTT		
ALICE ARM	Q20	55	26.70	129	31.84	80	05	23	07	250		X		X	BOTT		
ALICE ARM	Q20	55	26.70	129	31.84	80	05	23	10	250		X		X	BOTT		
ALICE ARM	T64	55	26.4	129	39.55	80	05	25				X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 80-0043B
YEAR:1980 VESSEL/AGENCY: EPS

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
ALICE ARM	E5	55	27.8	129	29.25	80	10	11						X	BOTT		
ALICE ARM	G	55	25.4	129	40.20	80	10	11						X	BOTT		
ALICE ARM	M49	55	24.7	129	40.60	80	10	11						X	BOTT		
ALICE ARM	M49	55	27.1	129	37.0	80	10	12		350				X	BOTT		
ALICE ARM	M9	55	27.1	129	29.92	80	10	11						X	BOTT		
ALICE ARM	OI1	55	21.8	129	45.4	80	10	13		250				X	BOTT		
ALICE ARM	Q20	55	26.70	129	31.85	80	10	08		250				X	BOTT	3	6
ALICE ARM	Q20	55	26.70	129	31.85	80	10	09		250				X	BOTT		
ALICE ARM	T64	55	26.4	129	39.55	80	10	11						X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 80-0051A
YEAR:1980 VESSEL/AGENCY: G.B.REED

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C S T	INSTR	INT HR	NO
Q.C. SOUND	24	51 00.0	129 48.0	80 01		910		BISS		
Q.C. SOUND	25	51 00.0	129 21.0	80 01		182		BISS		
Q.C. SOUND	26	51 00.0	128 56.0	80 01		76		BISS		
Q.C. SOUND	27	51 00.0	128 31.0	80 01		100		BISS		
Q.C. SOUND	28	51 00.0	128 06.0	80 01		100		BISS		
Q.C. SOUND	29	51 30.0	128 31.0	80 01		164		BISS		
Q.C. SOUND	30	51 30.0	128 56.0	80 01		100		BISS		
Q.C. SOUND	31	51 30.0	129 21.0	80 01		100		BISS		
Q.C. SOUND	32	51 30.0	129 51.0	80 01		182		BISS		
Q.C. SOUND	33	51 30.0	130 24.0	80 01		910		BISS		
DIXON ENTRANCE	49	54 30.0	134 06.0	80 01		910		BISS		
DIXON ENTRANCE	50	54 30.0	133 49.0	80 01		182		BISS		
DIXON ENTRANCE	51	54 30.0	133 22.0	80 01		364		BISS		
DIXON ENTRANCE	52	54 30.0	132 55.0	80 01		365		BISS		
DIXON ENTRANCE	53	54 30.0	132 27.0	80 01		364		BISS		
DIXON ENTRANCE	54	54 30.0	132 00.0	80 01		246		BISS		
DIXON ENTRANCE	55	54 30.0	131 34.0	80 01		282		BISS		
DIXON ENTRANCE	56	54 30.0	131 07.0	80 01		146		BISS		
HECATE STRAIT	57	54 00.0	131 25.0	80 01		18		BISS		
HECATE STRAIT	58	54 00.0	131 08.0	80 01		55		BISS		
HECATE STRAIT	59	54 00.0	130 50.0	80 01		100		BISS		
HECATE STRAIT	60	53 30.0	130 42.0	80 01		100		BISS		
HECATE STRAIT	61	53 30.0	131 05.0	80 01		55		BISS		
HECATE STRAIT	62	53 30.0	131 02.0	80 01		22		BISS		
HECATE STRAIT	63	53 00.0	131 06.0	80 01		55		BISS		
HECATE STRAIT	64	53 00.0	130 40.0	80 01		100		BISS		
HECATE STRAIT	65	53 00.0	130 13.0	80 01		228		BISS		
HECATE STRAIT	66	53 00.0	129 47.0	80 01		55		BISS		
HECATE STRAIT	67	52 30.0	129 48.0	80 01		182		BISS		
HECATE STRAIT	68	52 30.0	130 13.0	80 01		273		BISS		
HECATE STRAIT	69	52 30.0	130 40.0	80 01		100		BISS		
HECATE STRAIT	70	52 30.0	101 07.0	80 01		55		BISS		
Q.C. SOUND	71	52 00.0	130 41.0	80 01		228		BISS		
Q.C. SOUND	72	52 00.0	130 14.0	80 01		100		BISS		
Q.C. SOUND	73	52 00.0	129 48.0	80 01		100		BISS		
Q.C. SOUND	74	52 00.0	129 21.0	80 01		182		BISS		
Q.C. SOUND	75	52 00.0	128 56.0	80 01		100		BISS		

BOTTLE/CTD DATA SET NUMBER: 80-0051B
YEAR:1980 VESSEL/AGENCY: G.B.REED

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C S T	INSTR	INT HR	NO
Q.C. SOUND	24	51 00.0	129 48.0	80 02		910		BISS		
Q.C. SOUND	25	51 00.0	129 21.0	80 02		182		BISS		
Q.C. SOUND	26	51 00.0	128 56.0	80 02		76		BISS		
Q.C. SOUND	27	51 00.0	128 31.0	80 02		100		BISS		
Q.C. SOUND	28	51 00.0	128 06.0	80 02		100		BISS		
Q.C. SOUND	29	51 30.0	128 31.0	80 02		164		BISS		
Q.C. SOUND	30	51 30.0	128 56.0	80 02		100		BISS		
Q.C. SOUND	31	51 30.0	129 21.0	80 02		100		BISS		
Q.C. SOUND	32	51 30.0	129 51.0	80 02		182		BISS		
Q.C. SOUND	33	51 30.0	130 24.0	80 02		910		BISS		
DIXON ENTRANCE	49	54 30.0	134 06.0	80 02		910		BISS		
DIXON ENTRANCE	50	54 30.0	133 49.0	80 02		182		BISS		
DIXON ENTRANCE	51	54 30.0	133 22.0	80 02		364		BISS		
DIXON ENTRANCE	52	54 30.0	132 55.0	80 02		365		BISS		
DIXON ENTRANCE	53	54 30.0	132 27.0	80 02		364		BISS		
DIXON ENTRANCE	54	54 30.0	132 00.0	80 02		246		BISS		
DIXON ENTRANCE	55	54 30.0	131 34.0	80 02		282		BISS		
DIXON ENTRANCE	56	54 30.0	131 07.0	80 02		146		BISS		
HECATE STRAIT	57	54 00.0	131 25.0	80 02		18		BISS		

HECATE STRAIT	58	54 00.0	131 08.0	80 02		55		BISS		
HECATE STRAIT	59	54 00.0	130 50.0	80 02		100		BISS		
HECATE STRAIT	60	53 30.0	130 42.0	80 02		100		BISS		
HECATE STRAIT	61	53 30.0	131 05.0	80 02		55		BISS		
HECATE STRAIT	62	53 30.0	131 02.0	80 02		22		BISS		
HECATE STRAIT	63	53 00.0	131 06.0	80 02		55		BISS		
HECATE STRAIT	64	53 00.0	130 40.0	80 02		100		BISS		
HECATE STRAIT	65	53 00.0	130 13.0	80 02		228		BISS		
HECATE STRAIT	66	53 00.0	129 47.0	80 02		55		BISS		
HECATE STRAIT	67	52 30.0	129 48.0	80 02		182		BISS		
HECATE STRAIT	68	52 30.0	130 13.0	80 02		273		BISS		
HECATE STRAIT	69	52 30.0	130 40.0	80 02		100		BISS		
HECATE STRAIT	70	52 30.0	101 07.0	80 02		55		BISS		
Q.C. SOUND	71	52 00.0	130 41.0	80 02		228		BISS		
Q.C. SOUND	72	52 00.0	130 14.0	80 02		100		BISS		
Q.C. SOUND	73	52 00.0	129 48.0	80 02		100		BISS		
Q.C. SOUND	74	52 00.0	129 21.0	80 02		182		BISS		
Q.C. SOUND	75	52 00.0	128 56.0	80 02		100		BISS		

BOTTLE/CTD DATA SET NUMBER: 80-0051C
YEAR:1980 VESSEL/AGENCY: G.B.REED

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C S T	INSTR	INT HR	NO
Q.C. SOUND	24	51 00.0	129 48.0	80 03		910		BISS		
Q.C. SOUND	25	51 00.0	129 21.0	80 03		182		BISS		
Q.C. SOUND	26	51 00.0	128 56.0	80 03		76		BISS		
Q.C. SOUND	27	51 00.0	128 31.0	80 03		100		BISS		
Q.C. SOUND	28	51 00.0	128 06.0	80 03		100		BISS		
Q.C. SOUND	29	51 30.0	128 31.0	80 03		164		BISS		
Q.C. SOUND	30	51 30.0	128 56.0	80 03		100		BISS		
Q.C. SOUND	31	51 30.0	129 21.0	80 03		100		BISS		
Q.C. SOUND	32	51 30.0	129 51.0	80 03		182		BISS		
Q.C. SOUND	33	51 30.0	130 24.0	80 03		910		BISS		
DIXON ENTRANCE	49	54 30.0	134 06.0	80 03		910		BISS		
DIXON ENTRANCE	50	54 30.0	133 49.0	80 03		182		BISS		
DIXON ENTRANCE	51	54 30.0	133 22.0	80 03		364		BISS		
DIXON ENTRANCE	52	54 30.0	132 55.0	80 03		365		BISS		
DIXON ENTRANCE	53	54 30.0	132 27.0	80 03		364		BISS		
DIXON ENTRANCE	54	54 30.0	132 00.0	80 03		246		BISS		
DIXON ENTRANCE	55	54 30.0	131 34.0	80 03		282		BISS		
DIXON ENTRANCE	56	54 30.0	131 07.0	80 03		146		BISS		
HECATE STRAIT	57	54 00.0	131 25.0	80 03		18		BISS		
HECATE STRAIT	58	54 00.0	131 08.0	80 03		55		BISS		
HECATE STRAIT	59	54 00.0	130 50.0	80 03		100		BISS		
HECATE STRAIT	60	53 30.0	130 42.0	80 03		100		BISS		
HECATE STRAIT	61	53 30.0	131 05.0	80 03		55		BISS		
HECATE STRAIT	62	53 30.0	131 02.0	80 03		22		BISS		
HECATE STRAIT	63	53 00.0	131 06.0	80 03		55		BISS		
HECATE STRAIT	64	53 00.0	130 40.0	80 03		100		BISS		
HECATE STRAIT	65	53 00.0	130 13.0	80 03		228		BISS		
HECATE STRAIT	66	53 00.0	129 47.0	80 03		55		BISS		
HECATE STRAIT	67	52 30.0	129 48.0	80 03		182		BISS		
HECATE STRAIT	68	52 30.0	130 13.0	80 03		273		BISS		
HECATE STRAIT	69	52 30.0	130 40.0	80 03		100		BISS		
HECATE STRAIT	70	52 30.0	101 07.0	80 03		55		BISS		
Q.C. SOUND	71	52 00.0	130 41.0	80 03		228		BISS		
Q.C. SOUND	72	52 00.0	130 14.0	80 03		100		BISS		
Q.C. SOUND	73	52 00.0	129 48.0	80 03		100		BISS		
Q.C. SOUND	74	52 00.0	129 21.0	80 03		182		BISS		
Q.C. SOUND	75	52 00.0	128 56.0	80 03		100		BISS		

BOTTLE/CTD DATA SET NUMBER: 80-0051D
YEAR:1980 VESSEL/AGENCY: G.B.REED

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
Q.C. SOUND	24	51	00.0	129	48.0	80	04				910				BISS		
Q.C. SOUND	25	51	00.0	129	21.0	80	04				182				BISS		
Q.C. SOUND	26	51	00.0	128	56.0	80	04				76				BISS		
Q.C. SOUND	27	51	00.0	128	31.0	80	04				100				BISS		
Q.C. SOUND	28	51	00.0	128	06.0	80	04				100				BISS		
Q.C. SOUND	29	51	30.0	128	31.0	80	04				164				BISS		
Q.C. SOUND	30	51	30.0	128	56.0	80	04				100				BISS		
Q.C. SOUND	31	51	30.0	129	21.0	80	04				100				BISS		
Q.C. SOUND	32	51	30.0	129	51.0	80	04				182				BISS		
Q.C. SOUND	33	51	30.0	130	24.0	80	04				910				BISS		
DIXON ENTRANCE	49	54	30.0	134	06.0	80	04				910				BISS		
DIXON ENTRANCE	50	54	30.0	133	49.0	80	04				182				BISS		
DIXON ENTRANCE	51	54	30.0	133	22.0	80	04				364				BISS		
DIXON ENTRANCE	52	54	30.0	132	55.0	80	04				365				BISS		
DIXON ENTRANCE	53	54	30.0	132	27.0	80	04				364				BISS		
DIXON ENTRANCE	54	54	30.0	132	00.0	80	04				246				BISS		
DIXON ENTRANCE	55	54	30.0	131	34.0	80	04				282				BISS		
DIXON ENTRANCE	56	54	30.0	131	07.0	80	04				146				BISS		
HECATE STRAIT	57	54	00.0	131	25.0	80	04				18				BISS		
HECATE STRAIT	58	54	00.0	131	08.0	80	04				55				BISS		
HECATE STRAIT	59	54	00.0	130	50.0	80	04				100				BISS		
HECATE STRAIT	60	53	30.0	130	42.0	80	04				100				BISS		
HECATE STRAIT	61	53	30.0	131	05.0	80	04				55				BISS		
HECATE STRAIT	62	53	30.0	131	02.0	80	04				22				BISS		
HECATE STRAIT	63	53	00.0	131	06.0	80	04				55				BISS		
HECATE STRAIT	64	53	00.0	130	40.0	80	04				100				BISS		
HECATE STRAIT	65	53	00.0	130	13.0	80	04				228				BISS		
HECATE STRAIT	66	53	00.0	129	47.0	80	04				55				BISS		
HECATE STRAIT	67	52	30.0	129	48.0	80	04				182				BISS		
HECATE STRAIT	68	52	30.0	130	13.0	80	04				273				BISS		
HECATE STRAIT	69	52	30.0	130	40.0	80	04				100				BISS		
HECATE STRAIT	70	52	30.0	101	07.0	80	04				55				BISS		
Q.C. SOUND	71	52	00.0	130	41.0	80	04				228				BISS		
Q.C. SOUND	72	52	00.0	130	14.0	80	04				100				BISS		
Q.C. SOUND	73	52	00.0	129	48.0	80	04				100				BISS		
Q.C. SOUND	74	52	00.0	129	21.0	80	04				182				BISS		
Q.C. SOUND	75	52	00.0	128	56.0	80	04				100				BISS		

BOTTLE/CTD DATA SET NUMBER: 80-0052
YEAR:1980 VESSEL/AGENCY: EPS

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
PORPOISE HBR	P12	54	13.22	130	17.63	80	08	20	23	20		X		X	PLES		
PORPOISE HBR	P17	54	15.03	130	16.95	80	08	21	00	20		X		X	PLES		
PORPOISE HBR	P18	54	14.25	130	18.40	80	08	21	00	15		X		X	PLES		
PORPOISE HBR	P20	54	12.10	130	18.30	80	08	20	22	25		X		X	PLES		
PORPOISE HBR	PH1	54	14.55	130	18.34	80	08	21	00	25		X		X	PLES		
PORPOISE HBR	PH2	54	12.51	130	17.72	80	08	20	22	25		X		X	PLES		
PORPOISE HBR	PH3	54	13.90	130	18.05	80	08	20	23	20		X		X	PLES		

BOTTLE/CTD DATA SET NUMBER: 80-0055B
YEAR:1980 VESSEL/AGENCY: PBS,G.B.REED

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
Q.C. SOUND	48	51	10.0	128	35.0	80	05	18	16	167	167			X	XBT		
Q.C. SOUND	49	51	25.0	128	46.0	80	05	18	20	220	220			X	XBT		
Q.C. SOUND	50	51	28.0	128	42.0	80	05	18	23	190	190			X	XBT		
Q.C. SOUND	51	51	22.0	128	26.0	80	05	20	15	203	203			X	XBT		
Q.C. SOUND	52	51	26.0	128	35.0	80	05	20	18	203	203			X	XBT		
Q.C. SOUND	53	51	30.0	128	33.0	80	05	20	20	175	175			X	XBT		
Q.C. SOUND	54	51	26.0	128	29.0	80	05	20	23	193	193			X	XBT		
Q.C. SOUND	55	51	30.0	128	31.0	80	05	21	00	12	190			X	XBT		
Q.C. SOUND	56	51	30.0	128	31.0	80	05	21	00	190	190			X	XBT		
Q.C. SOUND	57	51	31.0	128	56.0	80	05	21	02	47	47			X	XBT		
Q.C. SOUND	58	52	02.0	128	49.0	80	05	21	17	170	170			X	XBT		
Q.C. SOUND	59	51	59.0	128	47.0	80	05	21	19	164	164			X	XBT		

BOTTLE/CTD DATA SET NUMBER: 81-0018
YEAR:1981 VESSEL/AGENCY: IOS

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
ALICE ARM	AA 1	55	24.75	129	40.75	81	12	7	18	78.5		X		X	GLDL		
ALICE ARM	AA 2	55	26.00	129	40.05	81	12	7	18	185.1		X		X	GLDL		
ALICE ARM	AA 3	55	27.15	129	37.05	81	12	7	19	367.6		X		X	GLDL		
ALICE ARM	AA 3.	55	26.94	129	33.60	81	12	7	20	295.1		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	81	12	7	22	265.7		X		X	GLDL		
ALICE ARM	AA 5	55	27.90	129	29.25	81	12	7	21	83.4		X		X	GLDL		
ALICE ARM	HA 1	55	24.90	129	43.10	81	12	4	10	158.0		X		X	GLDL		
ALICE ARM	HA 1	55	24.90	129	43.10	81	12	7	13	161.6		X		X	GLDL		
ALICE ARM	HA 2	55	28.70	129	45.10	81	12	4	11	268.2		X		X	GLDL		
ALICE ARM	HA 2	55	28.70	129	45.10	81	12	7	14	250.6		X		X	GLDL		
ALICE ARM	HA 3	55	32.50	129	47.10	81	12	5	6	141.2		X		X	GLDL		
ALICE ARM	HA 3	55	32.50	129	47.10	81	12	7	15	274.1		X		X	GLDL		
ALICE ARM	HA 4	55	36.50	129	47.80	81	12	7	16	159.1		X		X	GLDL		
ALICE ARM	OB 1	55	3.10	130	0.80	81	12	4	3	43.8		X		X	GLDL		
ALICE ARM	OB 1	55	3.10	130	0.80	81	12	7	8	45.3		X		X	GLDL		
ALICE ARM	OB 2	55	6.70	129	57.30	81	12	4	4	404.1		X		X	GLDL		
ALICE ARM	OB 2	55	6.70	129	57.30	81	12	7	8	412.0		X		X	GLDL		
ALICE ARM	OB 3	55	10.00	129	53.00	81	12	4	6	446.3		X		X	GLDL		
ALICE ARM	OB 3	55	10.00	129	53.00	81	12	7	10	458.6		X		X	GLDL		
ALICE ARM	OB 4	55	13.90	129	51.10	81	12	4	7	463.4		X		X	GLDL		
ALICE ARM	OB 4	55	13.90	129	51.10	81	12	7	10	464.7		X		X	GLDL		
ALICE ARM	OB 5	55	17.50	129	47.90	81	12	4	8	475.6		X		X	GLDL		
ALICE ARM	OB 5	55	17.50	129	47.90	81	12	7	11	506.5		X		X	GLDL		
ALICE ARM	OB 6	55	21.30	129	45.70	81	12	4	9	213.7		X		X	GLDL		
ALICE ARM	OB 6	55	21.30	129	45.70	81	12	7	12	210.4		X		X	GLDL		
ALICE ARM	PI 1	54	40.60	123	28.20	81	12	3	10	473.1		X		X	GLDL		
ALICE ARM	PI 1	54	40.60	123	28.20	81	12	7	0	424.7		X		X	GLDL		
ALICE ARM	PI 2	54	43.80	130	24.30	81	12	3	11	462.6		X		X	GLDL		
ALICE ARM	PI 2	54	43.80	130	24.30	81	12	7	1	500.3		X		X	GLDL		
ALICE ARM	PI 3	54	46.70	130	19.70	81	12	3	12	470.3		X		X	GLDL		
ALICE ARM	PI 3	54	46.70	130	19.70	81	12	7	3	465.3		X		X	GLDL		
ALICE ARM	PI 4	54	49.60	130	14.90	81	12	3	13	407.9		X		X	GLDL		
ALICE ARM	PI 4	54	49.60	130	14.90	81	12	7	4	426.2		X		X	GLDL		
ALICE ARM	PI 5	54	52.85	130	10.90	81	12	3	14	387.2		X		X	GLDL		
ALICE ARM	PI 5	54	52.85	130	10.90	81	12	7	5	410.2		X		X	GLDL		
ALICE ARM	PI 6	54	56.10	130	6.90	81	12	4	1	325.5		X		X	GLDL		
ALICE ARM	PI 6	54	56.10	130	6.90	81	12	7	6	329.6		X		X	GLDL		
ALICE ARM	PI 7	54	59.30	130	2.80	81	12	4	2	209.5		X		X	GLDL		
ALICE ARM	PI 7	54	59.30	130	2.80	81	12	7	7	201.4		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 81-0021A
YEAR:1981 VESSEL/AGENCY: DOME/SEAKEM,ESL

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
CHATHAM SOUND	1	54	35.	130	28.	81	05	29	20	40		X		X	AMS		
CHATHAM SOUND	1	54	35.	130	28.	81	06	02	15	40		X		X	AMS		
CHATHAM SOUND	2	54	35.	130	25.	81	06	02	16	45		X		X	AMS		
CHATHAM SOUND	A	54	34.	130	24.	81	05	24	01	25		X		X	AMS		
CHATHAM SOUND	A	54	34.	130	24.	81	05	24	19	25		X		X	AMS		
CHATHAM SOUND	A	54	34.	130	24.	81	05	29	18	25		X		X	AMS		
CHATHAM SOUND	A	54	34.	130	24.	81	06	02	14	20		X		X	AMS		
CHATHAM SOUND	B	54	34.	130	24.	81	05	24	01	30		X		X	AMS		
CHATHAM SOUND	B	54	34.	130	24.	81	05	24	19	25		X		X	AMS		
CHATHAM SOUND	B	54	34.	130	24.	81	05	29	18	25		X		X	AMS		
CHATHAM SOUND	B	54	34.	130	24.	81	06	02	15	25		X		X	AMS		
CHATHAM SOUND	C	54	35.	130	26.	81	05	23	20	42		X		X	AMS		
CHATHAM SOUND	C	54	35.	130	26.	81	05	24	00	45		X		X	AMS		
CHATHAM SOUND	C	54	35.	130	26.	81	05	24	18	40		X		X	AMS		
CHATHAM SOUND	C	54	35.	130	26.	81	05	29	19	40		X		X	AMS		
CHATHAM SOUND	C	54	35.	130	26.	81	06	02	20	45		X		X	AMS		
CHATHAM SOUND	D	54	36.	130	27.	81	05	24	00	50		X		X	AMS		
CHATHAM SOUND	D	54	36.	130	27.	81	05	24	18	45		X		X	AMS		
CHATHAM SOUND	D	54	36.	130	27.	81	05	29	20	45		X		X	AMS		
CHATHAM SOUND	D	54	36.	130	27.	81	06	02	19	45		X		X	AMS		
CHATHAM SOUND	E	54	37.	130	28.	81	05	23	23	70		X		X	AMS		
CHATHAM SOUND	E	54	37.	130	28.	81	05	24	17	70		X		X	AMS		
CHATHAM SOUND	E	54	37.	130	28.	81	05	29	20	70		X		X	AMS		
CHATHAM SOUND	E	54	37.	130	28.	81	06	02	19	60		X		X	AMS		

BOTTLE/CTD DATA SET NUMBER: 81-0021B
YEAR:1981 VESSEL/AGENCY: DOME/SEAKEM,ESL

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
CHATHAM SOUND	1	54	35.15	130	27.88	81	08	25	16	37		X		X	AMS		
CHATHAM SOUND	A	54	33.88	130	23.51	81	08	25	18	28		X		X	AMS		
CHATHAM SOUND	C	54	35.	130	26.	81	08	25	17	33		X		X	AMS		
CHATHAM SOUND	E	54	37.	130	28.	81	08	25	17	70		X		X	AMS		

BOTTLE/CTD DATA SET NUMBER: 81-0021C
YEAR:1981 VESSEL/AGENCY: DOME/SEAKEM,ESL

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
CHATHAM SOUND	1	54	35.15	130	27.88	81	11	26	19	41		X		X	AMS		
CHATHAM SOUND	A	54	33.88	130	23.51	81	11	27	00	27		X		X	AMS		
CHATHAM SOUND	C	54	35.28	130	25.53	81	11	26	19	49		X		X	AMS		
CHATHAM SOUND	E	54	36.78	130	27.54	81	11	26	23	70		X		X	AMS		

BOTTLE/CTD DATA SET NUMBER: 81-0021D
YEAR:1981 VESSEL/AGENCY: DOME/SEAKEM,ESL

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
CHATHAM SOUND	C	54	35.28	130	25.53	82	01	26	23	29		X		X	AMS		
CHATHAM SOUND	E	54	36.78	130	27.54	82	01	27	00	49		X		X	AMS		

BOTTLE/CTD DATA SET NUMBER: 81-0022
YEAR:1981 VESSEL/AGENCY: EPS,ENDEAVOUR

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
CHATHAM SOUND	SO-1	54	36.50	130	27.30	81	08	04	19	50	60	X		X	BOTT		
CHATHAM SOUND	SO-2	54	35.60	130	26.80	81	08	04	21	35	50	X		X	BOTT		
CHATHAM SOUND	SO-3	54	35.40	130	25.70	81	08	04	22	25	50	X		X	BOTT		
CHATHAM SOUND	SO-4	54	34.75	130	26.90	81	08	04	17	45	55	X		X	BOTT		
CHATHAM SOUND	SO-5	54	35.50	130	24.30	81	08	04	14	20	26	X		X	BOTT		
CHATHAM SOUND	SO-6	54	34.90	130	24.50	81	08	04	16	20	20	X		X	BOTT		
CHATHAM SOUND	SO-7	54	33.30	130	27.40	81	08	04	23	50	60	X		X	BOTT		
CHATHAM SOUND	SO-8	54	35.20	130	28.10	81	08	04	17	50	60	X		X	BOTT		
CHATHAM SOUND	SO-9	54	36.20	130	28.10	81	08	04	20	90	100	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 81-0023
YEAR:1981 VESSEL/AGENCY: IOS,VECTOR

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
KITIMAT ARM	1	53	59.0	128	41.4	81	07	08	23	50	128	X		X			
KITIMAT ARM	2	53	59.0	128	40.5	81	07	08	23	50	123	X		X			
KITIMAT ARM	3	53	59.0	128	39.6	81	07	08	23	50	112	X		X			
KITIMAT ARM	4	53	58.0	128	41.6	81	07	08	22	50	165	X		X			
KITIMAT ARM	5	53	58.0	128	40.6	81	07	08	22	50	172	X		X			
KITIMAT ARM	6	53	58.0	128	39.6	81	07	08	22	48	165	X		X			
KITIMAT ARM	7	53	57.0	128	42.1	81	07	08	21	50	146	X		X			
KITIMAT ARM	8	53	57.0	128	40.9	81	07	08	21	49	194	X		X			
KITIMAT ARM	9	53	57.0	128	40.0	81	07	08	22	47	161	X		X			
KITIMAT ARM	10	53	56.0	128	42.5	81	07	08	21	48	205	X		X			
KITIMAT ARM	11	53	56.0	128	41.7	81	07	08	21	46	216	X		X			
KITIMAT ARM	12	53	56.0	128	40.7	81	07	08	21	47	209	X		X			
KITIMAT ARM	13	53	55.0	128	45.0	81	07	08	20	48	102	X		X			
KITIMAT ARM	14	53	55.0	128	43.7	81	07	08	20	47	154	X		X			
KITIMAT ARM	15	53	55.0	128	42.8	81	07	08	20	48	230	X		X			
KITIMAT ARM	16	53	55.0	128	42.0	81	07	08	20	50	223	X		X			
KITIMAT ARM	17	53	54.0	128	45.4	81	07	08	19	48	256	X		X			
KITIMAT ARM	18	53	54.0	128	44.5	81	07	08	19	48	264	X		X			
KITIMAT ARM	19	53	54.0	128	40.5	81	07	08	19	48	267	X		X			
KITIMAT ARM	20	53	53.0	128	46.7	81	07	08	17	50	254	X		X			
KITIMAT ARM	21	53	53.0	128	45.8	81	07	08	17	49	285	X		X			
KITIMAT ARM	22	53	53.0	128	45.0	81	07	08	18	48	285	X		X			
KITIMAT ARM	23	53	53.0	128	44.1	81	07	08	18	49	240	X		X			
KITIMAT ARM	24	53	53.0	128	43.3	81	07	08	18	48	232	X		X			
KITIMAT ARM	25	53	52.0	128	47.7	81	07	08	17	49	95	X		X			
KITIMAT ARM	26	53	52.0	128	47.0	81	07	08	16	49	289	X		X			
KITIMAT ARM	27	53	52.0	128	46.2	81	07	08	16	49	304	X		X			
KITIMAT ARM	28	53	52.0	128	45.4	81	07	08	16	48	289	X		X			
KITIMAT ARM	29	53	51.0	128	50.5	81	07	08	14	49	249	X		X			
KITIMAT ARM	30	53	51.0	128	49.4	81	07	08	14	49	121	X		X			

KITIMAT ARM	31	53	51.0	128	48.3	81	07	08	14	48	293	X	X
KITIMAT ARM	32	53	51.0	128	47.2	81	07	08	15	49	322	X	X
KITIMAT ARM	33	53	51.0	128	46.3	81	07	08	15	49	275	X	X
KITIMAT ARM	34	53	50.0	128	51.0	81	07	08	12	49	326	X	X
KITIMAT ARM	35	53	50.0	128	49.3	81	07	08	12	48	172	X	X
KITIMAT ARM	36	53	50.0	128	48.2	81	07	08	13	48	329	X	X
KITIMAT ARM	37	53	50.0	128	47.2	81	07	08	13	50	267	X	X
KITIMAT ARM	38	53	49.0	128	51.7	81	07	08	12	49	307	X	X
KITIMAT ARM	39	53	49.0	128	50.6	81	07	08	11	49	344	X	X
KITIMAT ARM	40	53	49.0	128	49.5	81	07	08	11	49	348	X	X
KITIMAT ARM	41	53	49.0	128	48.5	81	07	08	10	50	351	X	X
KITIMAT ARM	42	53	49.0	128	47.5	81	07	08	10	50	304	X	X
KITIMAT ARM	43	53	48.0	128	53.6	81	07	08	08	49	336	X	X
KITIMAT ARM	44	53	48.0	128	52.0	81	07	08	09	49	362	X	X
KITIMAT ARM	45	53	48.0	128	50.3	81	07	08	09	46	352	X	X
KITIMAT ARM	46	53	48.0	128	48.7	81	07	08	09	49	340	X	X
KITIMAT ARM	47	53	48.0	128	47.0	81	07	08	10	48	278	X	X
KITIMAT ARM	48	53	47.0	128	54.7	81	07	08	08	49	380	X	X
KITIMAT ARM	49	53	47.0	128	53.6	81	07	08	07	50	387	X	X
KITIMAT ARM	50	53	47.0	128	52.5	81	07	08	06	48	373	X	X
KITIMAT ARM	51	53	47.0	128	51.3	81	07	08	06	48	402	X	X
KITIMAT ARM	52	53	47.0	128	50.0	81	07	08	06	50	366	X	X
KITIMAT ARM	53	53	47.0	128	48.9	81	07	08	05	48	366	X	X
KITIMAT ARM	600	53	50.0	128	49.5	81	07	09	10	50	220	X	X
KITIMAT ARM	601	53	50.0	128	49.1	81	07	09	14	50	220	X	X
KITIMAT ARM	602	53	50.1	128	49.1	81	07	09	18	49	220	X	X
KITIMAT ARM	603	53	50.0	128	49.4	81	07	09	23	50	220	X	X
KITIMAT ARM	604	53	50.0	128	49.5	81	07	10	02	49	220	X	X
KITIMAT ARM	605	53	50.0	128	49.5	81	07	10	06	46	220	X	X
KITIMAT ARM	606	53	50.0	128	49.6	81	07	10	10	50	220	X	X
KITIMAT ARM	607	53	50.0	128	49.2	81	07	10	13	52	220	X	X
KITIMAT ARM	608	53	50.0	128	49.2	81	07	10	18	51	220	X	X
KITIMAT ARM	609	53	50.1	128	49.2	81	07	10	21	50	220	X	X
KITIMAT ARM	610	53	50.0	128	49.2	81	07	11	02	50	220	X	X
KITIMAT ARM	611	53	50.0	128	49.2	81	07	11	06	49	220	X	X
KITIMAT ARM	612	53	50.0	128	49.2	81	07	11	11	49	220	X	X
KITIMAT ARM	613	53	50.0	128	49.2	81	07	11	16	46	220	X	X
KITIMAT ARM	614	53	48.0	128	50.3	81	07	11	20	210	220	X	X

BOTTLE/CTD DATA SET NUMBER: 81-0024A
YEAR:1981 VESSEL/AGENCY: IOS,VECTOR

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
ALICE ARM	1	54	49.00	130	15.00	81	5	21	5	433.9		X		X	GLDL		
ALICE ARM	2	54	59.60	130	2.35	81	5	21	8	194.0		X		X	GLDL		
ALICE ARM	20	55	19.15	129	46.60	81	5	21	20	471.2		X		X	GLDL		
ALICE ARM	25	55	23.30	129	42.80	81	5	22	0	176.9		X		X	GLDL		
ALICE ARM	27	55	24.85	129	40.40	81	5	22	0	84.3		X		X	GLDL		
ALICE ARM	27	55	24.85	129	40.40	81	5	22	14	66.1		X		X	GLDL		
ALICE ARM	27	55	24.85	129	40.40	81	5	22	16	85.5		X		X	GLDL		
ALICE ARM	27	55	24.85	129	40.40	81	5	22	19	79.7		X		X	GLDL		
ALICE ARM	27	55	24.85	129	40.40	81	5	22	20	66.8		X		X	GLDL		
ALICE ARM	27	55	24.85	129	40.40	81	5	22	21	79.1		X		X	GLDL		
ALICE ARM	27	55	24.85	129	40.40	81	5	22	22	83.0		X		X	GLDL		
ALICE ARM	27	55	24.85	129	40.40	81	5	22	22	84.5		X		X	GLDL		
ALICE ARM	27	55	24.85	129	40.40	81	5	23	0	79.1		X		X	GLDL		
ALICE ARM	27	55	24.85	129	40.40	81	5	23	0	81.4		X		X	GLDL		
ALICE ARM	27	55	24.85	129	40.40	81	5	23	1	78.6		X		X	GLDL		
ALICE ARM	27	55	24.85	129	40.40	81	5	23	2	85.4		X		X	GLDL		
ALICE ARM	27	55	24.85	129	40.40	81	5	23	3	81.3		X		X	GLDL		
ALICE ARM	27	55	24.85	129	40.40	81	5	23	4	73.4		X		X	GLDL		
ALICE ARM	27	55	24.85	129	40.40	81	5	23	6	79.7		X		X	GLDL		
ALICE ARM	27	55	24.85	129	40.40	81	5	23	8	81.4		X		X	GLDL		
ALICE ARM	27	55	24.85	129	40.40	81	5	23	9	81.4		X		X	GLDL		
ALICE ARM	27	55	24.85	129	40.40	81	5	23	10	77.4		X		X	GLDL		
ALICE ARM	27	55	24.85	129	40.40	81	5	23	11	79.3		X		X	GLDL		
ALICE ARM	27	55	24.85	129	40.40	81	5	24	7	78.5		X		X	GLDL		
ALICE ARM	28	55	25.95	129	40.15	81	5	22	6	246.9		X		X	GLDL		
ALICE ARM	28	55	25.95	129	40.15	81	5	22	9	248.8		X		X	GLDL		
ALICE ARM	28	55	25.95	129	40.15	81	5	22	11	247.9		X		X	GLDL		
ALICE ARM	28	55	25.95	129	40.15	81	5	22	13	198.7		X		X	GLDL		
ALICE ARM	28	55	25.95	129	40.15	81	5	22	16	271.7		X		X	GLDL		
ALICE ARM	28	55	25.95	129	40.15	81	5	22	18	268.5		X		X	GLDL		

ALICE ARM	28	55	25.95	129	40.15	81	5	22	19	94.7		X		X	GLDL	
ALICE ARM	28	55	25.95	129	40.15	81	5	22	20	248.6		X		X	GLDL	
ALICE ARM	28	55	25.95	129	40.15	81	5	22	21	242.6		X		X	GLDL	
ALICE ARM	28	55	25.95	129	40.15	81	5	22	22	246.3		X		X	GLDL	
ALICE ARM	28	55	25.95	129	40.15	81	5	22	23	243.0		X		X	GLDL	
ALICE ARM	28	55	25.95	129	40.15	81	5	23	0	247.2		X		X	GLDL	
ALICE ARM	28	55	25.95	129	40.15	81	5	23	1	259.4		X		X	GLDL	
ALICE ARM	28	55	25.95	129	40.15	81	5	23	2	266.6		X		X	GLDL	
ALICE ARM	28	55	25.95	129	40.15	81	5	23	3	272.7		X		X	GLDL	
ALICE ARM	28	55	25.95	129	40.15	81	5	23	4	274.8		X		X	GLDL	
ALICE ARM	28	55	25.95	129	40.15	81	5	23	5	275.1		X		X	GLDL	
ALICE ARM	28	55	25.95	129	40.15	81	5	23	6	279.2		X		X	GLDL	
ALICE ARM	28	55	25.95	129	40.15	81	5	23	8	246.1		X		X	GLDL	
ALICE ARM	28	55	25.95	129	40.15	81	5	23	9	245.8		X		X	GLDL	
ALICE ARM	28	55	25.95	129	40.15	81	5	23	10	249.3		X		X	GLDL	
ALICE ARM	28	55	25.95	129	40.15	81	5	23	11	236.7		X		X	GLDL	
ALICE ARM	28	55	25.95	129	40.15	81	5	24	7	273.8		X		X	GLDL	
ALICE ARM	29	55	26.66	129	38.80	81	5	22	1	318.9		X		X	GLDL	
ALICE ARM	29	55	26.66	129	38.80	81	5	23	12	322.9		X		X	GLDL	
ALICE ARM	30	55	27.13	129	37.30	81	5	23	12	372.8		X		X	GLDL	
ALICE ARM	31	55	27.03	129	35.50	81	5	22	1	363.7		X		X	GLDL	
ALICE ARM	31	55	27.03	129	35.50	81	5	22	6	223.7		X		X	GLDL	
ALICE ARM	31	55	27.03	129	35.50	81	5	22	8	322.3		X		X	GLDL	
ALICE ARM	31	55	27.03	129	35.50	81	5	22	10	325.5		X		X	GLDL	
ALICE ARM	31	55	27.03	129	35.50	81	5	22	11	377.0		X		X	GLDL	
ALICE ARM	31	55	27.03	129	35.50	81	5	22	13	337.3		X		X	GLDL	
ALICE ARM	31	55	27.03	129	35.50	81	5	22	15	377.2		X		X	GLDL	
ALICE ARM	31	55	27.03	129	35.50	81	5	22	18	370.1		X		X	GLDL	
ALICE ARM	31	55	27.03	129	35.50	81	5	23	12	300.3		X		X	GLDL	
ALICE ARM	32	55	26.90	129	33.92	81	5	23	13	269.2		X		X	GLDL	
ALICE ARM	33	55	26.75	129	31.90	81	5	22	2	253.3		X		X	GLDL	
ALICE ARM	33	55	26.75	129	31.90	81	5	23	13	262.3		X		X	GLDL	
ALICE ARM	33	55	26.75	129	31.90	81	5	23	15	216.1		X		X	GLDL	
ALICE ARM	34	55	26.92	129	30.30	81	5	23	13	166.7		X		X	GLDL	
ALICE ARM	35	55	27.67	129	29.07	81	5	22	2	97.5		X		X	GLDL	
ALICE ARM	35	55	27.67	129	29.07	81	5	22	5	80.5		X		X	GLDL	
ALICE ARM	35	55	27.67	129	29.07	81	5	22	10	83.1		X		X	GLDL	
ALICE ARM	35	55	27.67	129	29.07	81	5	22	12	93.4		X		X	GLDL	
ALICE ARM	35	55	27.67	129	29.07	81	5	22	15	80.8		X		X	GLDL	
ALICE ARM	35	55	27.67	129	29.07	81	5	22	17	74.4		X		X	GLDL	
ALICE ARM	35	55	27.67	129	29.07	81	5	23	7	78.1		X		X	GLDL	
ALICE ARM	35	55	27.67	129	29.07	81	5	23	14	90.0		X		X	GLDL	
ALICE ARM	B 1.5	55	2.30	130	0.65	81	5	21	12	174.9		X		X	GLDL	
ALICE ARM	B 1.5	55	2.30	130	0.65	81	5	21	13	173.0		X		X	GLDL	
ALICE ARM	B 1.5	55	2.30	130	0.65	81	5	21	13	173.0		X		X	GLDL	
ALICE ARM	B 1.5	55	2.30	130	0.65	81	5	21	14	129.4		X		X	GLDL	
ALICE ARM	B 1.5	55	2.30	130	0.65	81	5	21	18	150.6		X		X	GLDL	
ALICE ARM	B 1.8	55	2.70	130	0.60	81	5	21	14	79.4		X		X	GLDL	
ALICE ARM	B 1.8	55	2.70	130	0.60	81	5	21	14	107.9		X		X	GLDL	
ALICE ARM	B 1.8	55	2.70	130	0.60	81	5	21	16	33.4		X		X	GLDL	
ALICE ARM	B 2.0	55	3.00	130	0.50	81	5	21	14	34.9		X		X	GLDL	
ALICE ARM	B 2.0	55	3.00	130	0.50	81	5	21	14	32.4		X		X	GLDL	
ALICE ARM	B 2.0	55	3.00	130	0.50	81	5	21	14	41.2		X		X	GLDL	
ALICE ARM	B 2.0	55	3.00	130	0.50	81	5	21	15	44.4		X		X	GLDL	
ALICE ARM	B 2.0	55	3.00	130	0.50	81	5	21	15	77.1		X		X	GLDL	
ALICE ARM	B 2.1	55	3.14	130	0.40	81	5	21	13	67.1		X		X	GLDL	
ALICE ARM	B 2.2	55	3.20	130	0.30	81	5	21	14	82.5		X		X	GLDL	
ALICE ARM	B 2.2	55	3.20	130	0.30	81	5	21	14	70.0		X		X	GLDL	
ALICE ARM	B 2.2	55	3.20	130	0.30	81	5	21	14	58.1		X		X	GLDL	
ALICE ARM	B 2.5	55	3.50	130	0.20	81	5	21	10	116.9		X		X	GLDL	
ALICE ARM	B 2.5	55	3.50	130	0.20	81	5	21	17	108.6		X		X	GLDL	
ALICE ARM	B 3.0	55	3.60	130	0.00	81	5	21	17	153.8		X		X	GLDL	
ALICE ARM	B 4.0	55	4.10	129	59.50	81	5	21	17	215.9		X		X	GLDL	
ALICE ARM	B X	55	3.00	130	0.50	81	5	21	15	25.2		X		X	GLDL	

BOTTLE/CTD DATA SET NUMBER: 81-0024B
YEAR:1981 VESSEL/AGENCY: IOS

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT NO HR
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T		
ALICE ARM	AA 1	55	24.75	129	40.75	81	10	17	10	85.4		X		X	GLDL	
ALICE ARM	AA 1	55	24.75	129	40.75	81	10	19	6	79.0		X		X	GLDL	
ALICE ARM	AA 2	55	26.00	129	40.05	81	10	17	10	256.7		X		X	GLDL	
ALICE ARM	AA 2	55	26.00	129	40.05	81	10	19	6	226.5		X		X	GLDL	

ALICE ARM	AA 3	55	27.15	129	37.05	81	10	17	11	386.5		X		X	GLDL
ALICE ARM	AA 3	55	27.15	129	37.05	81	10	19	5	366.9		X		X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	81	10	17	12	270.5		X		X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	81	10	19	5	240.6		X		X	GLDL
ALICE ARM	AA 5	55	27.90	129	29.25	81	10	17	13	101.4		X		X	GLDL
ALICE ARM	AA 5	55	27.90	129	29.25	81	10	19	4	95.0		X		X	GLDL
ALICE ARM	HA 1	55	24.90	129	43.10	81	10	17	9	173.1		X		X	GLDL
ALICE ARM	HA 1	55	24.90	129	43.10	81	10	19	3	149.0		X		X	GLDL
ALICE ARM	HA 2	55	28.30	129	44.60	81	10	19	2	298.9		X		X	GLDL
ALICE ARM	HA 2	55	28.70	129	45.10	81	10	17	8	306.2		X		X	GLDL
ALICE ARM	HA 3	55	32.50	129	47.10	81	10	17	7	289.9		X		X	GLDL
ALICE ARM	HA 3	55	32.50	129	47.10	81	10	19	1	291.6		X		X	GLDL
ALICE ARM	HA 4	55	36.50	129	47.80	81	10	17	6	167.1		X		X	GLDL
ALICE ARM	HA 4	55	36.50	129	47.80	81	10	19	1	163.1		X		X	GLDL
ALICE ARM	OB 1	55	3.00	130	0.15	81	10	19	11	54.6		X		X	GLDL
ALICE ARM	OB 1	55	3.10	130	0.80	81	10	17	20	59.7		X		X	GLDL
ALICE ARM	OB 2	55	6.70	129	57.30	81	10	17	19	425.0		X		X	GLDL
ALICE ARM	OB 2	55	6.70	129	57.30	81	10	18	7	245.1		X		X	GLDL
ALICE ARM	OB 2	55	6.70	129	57.30	81	10	18	9	223.4		X		X	GLDL
ALICE ARM	OB 2	55	6.70	129	57.30	81	10	18	11	223.8		X		X	GLDL
ALICE ARM	OB 2	55	6.70	129	57.30	81	10	18	13	233.3		X		X	GLDL
ALICE ARM	OB 2	55	6.70	129	57.30	81	10	18	17	231.3		X		X	GLDL
ALICE ARM	OB 2	55	6.70	129	57.30	81	10	18	17	223.6		X		X	GLDL
ALICE ARM	OB 2	55	6.70	129	57.30	81	10	18	20	232.3		X		X	GLDL
ALICE ARM	OB 2	55	6.70	129	57.30	81	10	18	20	240.1		X		X	GLDL
ALICE ARM	OB 2	55	6.70	129	57.30	81	10	18	20	425.8		X		X	GLDL
ALICE ARM	OB 2	55	6.70	129	57.30	81	10	19	10	362.7		X		X	GLDL
ALICE ARM	OB 3	55	10.00	129	53.00	81	10	17	18	466.4		X		X	GLDL
ALICE ARM	OB 3	55	10.00	129	53.00	81	10	19	9	474.7		X		X	GLDL
ALICE ARM	OB 4	55	13.90	129	51.10	81	10	17	16	497.5		X		X	GLDL
ALICE ARM	OB 4	55	13.90	129	51.10	81	10	19	8	402.2		X		X	GLDL
ALICE ARM	OB 5	55	17.50	129	47.90	81	10	17	16	526.9		X		X	GLDL
ALICE ARM	OB 5	55	17.50	129	47.90	81	10	19	8	500.2		X		X	GLDL
ALICE ARM	OB 6	55	21.30	129	45.70	81	10	17	15	236.2		X		X	GLDL
ALICE ARM	OB 6	55	21.30	129	45.90	81	10	19	7	228.0		X		X	GLDL
ALICE ARM	PI 1	54	40.60	123	28.20	81	10	18	2	538.7		X		X	GLDL
ALICE ARM	PI 1	54	40.60	123	28.20	81	10	19	16	413.6		X		X	GLDL
ALICE ARM	PI 2	54	43.80	130	24.30	81	10	18	1	542.8		X		X	GLDL
ALICE ARM	PI 2	54	43.80	130	24.30	81	10	19	15	490.5		X		X	GLDL
ALICE ARM	PI 3	54	46.70	130	19.70	81	10	18	0	497.3		X		X	GLDL
ALICE ARM	PI 3	54	46.70	130	19.70	81	10	19	14	444.9		X		X	GLDL
ALICE ARM	PI 4	54	49.60	130	14.90	81	10	17	23	451.5		X		X	GLDL
ALICE ARM	PI 4	54	49.60	130	14.90	81	10	19	14	423.0		X		X	GLDL
ALICE ARM	PI 5	54	52.85	130	10.90	81	10	17	23	428.7		X		X	GLDL
ALICE ARM	PI 5	54	52.85	130	10.90	81	10	19	13	412.8		X		X	GLDL
ALICE ARM	PI 6	54	56.10	130	6.90	81	10	17	21	344.3		X		X	GLDL
ALICE ARM	PI 6	54	56.10	130	6.90	81	10	19	12	338.9		X		X	GLDL
ALICE ARM	PI 7	54	59.30	130	2.80	81	10	17	21	221.5		X		X	GLDL
ALICE ARM	PI 7	54	59.30	130	2.80	81	10	18	5	224.3		X		X	GLDL
ALICE ARM	PI 7	54	59.30	130	2.80	81	10	18	8	211.4		X		X	GLDL
ALICE ARM	PI 7	54	59.30	130	2.80	81	10	18	10	214.6		X		X	GLDL
ALICE ARM	PI 7	54	59.30	130	2.80	81	10	18	12	211.7		X		X	GLDL
ALICE ARM	PI 7	54	59.30	130	2.80	81	10	18	15	214.4		X		X	GLDL
ALICE ARM	PI 7	54	59.30	130	2.80	81	10	18	17	209.5		X		X	GLDL
ALICE ARM	PI 7	54	59.30	130	2.80	81	10	18	18	206.6		X		X	GLDL
ALICE ARM	PI 7	54	59.30	130	2.80	81	10	19	12	210.9		X		X	GLDL

BOTTLE/CTD DATA SET NUMBER: 81-0050
YEAR:1981 VESSEL/AGENCY: EPS

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
PORPOISE HBR	B10	54	13.19	130	17.60	81	08	04	02	10		X		X	BOTT		
PORPOISE HBR	B13	54	11.90	130	18.58	81	08	03	18	20		X		X	BOTT		
PORPOISE HBR	P12	54	13.22	130	17.63	81	08	03	23	10		X		X	BOTT		
PORPOISE HBR	P17	54	15.03	130	16.95	81	08	03	22	10		X		X	BOTT		
PORPOISE HBR	P18	54	14.25	130	18.40	81	08	04	06	10		X		X	BOTT		
PORPOISE HBR	P20	54	12.10	130	18.30	81	08	03	18	20		X		X	BOTT		
PORPOISE HBR	PH1	54	14.55	130	18.34	81	08	03	22	10		X		X	BOTT		
PORPOISE HBR	PH2	54	12.51	130	17.72	81	08	04	02	20		X		X	BOTT		
PORPOISE HBR	PH3	54	13.90	130	18.05	81	08	04	05	10		X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 81-0053C
YEAR:1981 VESSEL/AGENCY: PBS,G.B.REED

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q.C.SOUND	32	52	04.0	128	53.0	81	05	19	15	168	168			X	XBT		
Q.C.SOUND	33	51	18.0	128	43.0	81	05	19	20	152	152			X	XBT		
Q.C.SOUND	34	51	30.0	128	33.0	81	05	20	15	183	183			X	XBT		
Q.C.SOUND	35	51	23.0	128	45.0	81	05	20	20	206	206			X	XBT		

BOTTLE/CTD DATA SET NUMBER: 81-0053D
YEAR:1981 VESSEL/AGENCY: PBS,TENACIOUS

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
HECATE STRAIT	1	52	16.0	130	23.0	81	06	07	18	304	304			X	XBT		
HECATE STRAIT	2	52	22.0	130	29.0	81	06	08	02	170	170			X	XBT		
HECATE STRAIT	3	52	25.0	130	21.0	81	06	08	18	15				X	XBT		
HECATE STRAIT	4	52	47.0	130	21.0	81	06	10	16	193	193			X	XBT		
HECATE STRAIT	5	53	05.0	130	11.0	81	06	11	02	10				X	XBT		
HECATE STRAIT	6	52	36.0	130	03.0	81	06	12	21	271	271			X	XBT		
HECATE STRAIT	7	52	17.0	130	04.0	81	06	14	17	240	240			X	XBT		
HECATE STRAIT	8	51	59.0	130	43.0	81	06	16	00	296	296			X	XBT		
HECATE STRAIT	9	53	10.0	130	17.0	81	06	16	22	212				X	XBT		

BOTTLE/CTD DATA SET NUMBER: 81-0053E
YEAR:1981 VESSEL/AGENCY: PBS,G.B.REED

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
Q.C.SOUND	1	51	12.0	128	30.0	81	07	05	17	198	198			X	XBT		
Q.C.SOUND	2	51	27.0	129	06.0	81	07	06	16	83	83			X	XBT		
Q.C.SOUND	3	51	26.0	128	53.0	81	07	07	13	190	190			X	XBT		
Q.C.SOUND	4	51	27.0	128	32.0	81	07	08	07	226	226			X	XBT		
Q.C.SOUND	5	51	22.0	128	52.0	81	07	08	10	258	258			X	XBT		
Q.C.SOUND	6	51	58.0	129	22.0	81	07	09	07	218	218			X	XBT		
Q.C.SOUND	7	51	43.0	129	52.0	81	07	09	09	336	336			X	XBT		
Q.C.SOUND	8	51	27.0	128	32.0	81	07	10	06	208	208			X	XBT		
Q.C.SOUND	9	51	12.0	128	30.0	81	07	10	08	200	200			X	XBT		
Q.C.SOUND	10	51	16.0	129	14.0	81	07	11	02	277	277			X	XBT		
Q.C.SOUND	11	51	21.0	129	54.0	81	07	11	06	247	247			X	XBT		
Q.C.SOUND	12	52	02.0	128	41.0	81	07	14	17	172	172			X	XBT		
Q.C.SOUND	13	51	12.0	128	21.0	81	07	16	22	164	164			X	XBT		

BOTTLE/CTD DATA SET NUMBER: 81-0053F
YEAR:1981 VESSEL/AGENCY: PBS,ARCTIC OCEAN

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
Q.C.SOUND	1	51 07.0	128 21.0	81	08	07	20	183	183			X	XBT		
Q.C.SOUND	2	51 13.0	129 17.0	81	08	08	02	286	286			X	XBT		
Q.C.SOUND	3	51 43.0	129 50.0	81	08	07	19	319	319			X	XBT		
HECATE STRAIT	4	53 20.0	130 46.0	81	08	11	14	183				X	XBT		
HECATE STRAIT	5	53 21.0	131 36.0	81	08	13	20	25	25			X	XBT		
HECATE STRAIT	6	53 48.0	131 27.0	81	08	15	03	17	17			X	XBT		
HECATE STRAIT	7	54 09.0	131 05.0	81	08	17	00	110	110			X	XBT		
CHATHAM SOUND	8	54 29.0	130 45.0	81	08	19	04	200				X	XBT		

BOTTLE/CTD DATA SET NUMBER: 81-0053G
YEAR:1981 VESSEL/AGENCY: PBS,G.B.REED

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
Q.C.SOUND	1	51 07.0	128 20.0	81	08	12	17	181	181			X	XBT		
Q.C.SOUND	2	51 15.0	128 40.0	81	08	12	19	191	191			X	XBT		
Q.C.SOUND	3	51 24.0	128 43.0	81	08	12	20	216	216			X	XBT		
Q.C.SOUND	4	51 19.0	129 00.0	81	08	12	23	238	238			X	XBT		
Q.C.SOUND	5	51 13.0	129 17.0	81	08	13	01	285	285			X	XBT		
Q.C.SOUND	6	51 07.0	129 37.0	81	08	13	03	263				X	XBT		
Q.C.SOUND	7	51 21.0	129 49.0	81	08	13	05	230	230			X	XBT		
Q.C.SOUND	8	52 00.0	129 30.0	81	08	13	21	201	201			X	XBT		
HECATE STRAIT	9	52 30.0	130 07.0	81	08	14	02	288	288			X	XBT		
HECATE STRAIT	10	52 40.0	130 09.0	81	08	14	04	239	239			X	XBT		
HECATE STRAIT	11	52 50.0	130 11.0	81	08	14	05	249	249			X	XBT		
HECATE STRAIT	12	53 00.0	130 12.0	81	08	14	06	209	209			X	XBT		
HECATE STRAIT	13	53 09.0	130 27.0	81	08	15	04	201	201			X	XBT		
HECATE STRAIT	14	53 17.0	130 41.0	81	08	15	05	179	179			X	XBT		
HECATE STRAIT	15	53 28.0	130 45.0	81	08	15	06	153	153			X	XBT		
HECATE STRAIT	16	53 43.0	130 43.0	81	08	15	18	142	142			X	XBT		
HECATE STRAIT	17	53 50.0	130 52.0	81	08	15	22	88	88			X	XBT		
HECATE STRAIT	18	53 57.0	131 00.0	81	08	16	05	70	70			X	XBT		
HECATE STRAIT	19	54 07.0	131 02.0	81	08	16	06	107				X	XBT		
HECATE STRAIT	20	54 17.0	131 02.0	81	08	16	08	123	123			X	XBT		
Q.C.SOUND	26	51 36.0	130 02.0	81	08	25	08	150				X	XBT		

BOTTLE/CTD DATA SET NUMBER: 81-0054
YEAR:1981 VESSEL/AGENCY: IOS

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALICE ARM	0 20	55 26.90	129 31.84	81	07	08	21	114.6		X		X	GLDL		
ALICE ARM	B168	55 25.60	129 40.28	81	08	03	16	55.1		X		X	GLDL		
ALICE ARM	B168	55 25.60	129 40.28	81	08	09	19	129.3		X		X	GLDL		
ALICE ARM	B168	55 25.60	129 40.28	81	09	02	16	86.6		X		X	GLDL		
ALICE ARM	B168	55 25.60	129 40.28	81	09	08	00	85.1		X		X	GLDL		
ALICE ARM	D 03	55 28.00	129 28.85	81	08	14	16	92.3		X		X	GLDL		
ALICE ARM	DP	55 16.40	129 48.60	81	08	10	20	267.9		X		X	GLDL		
ALICE ARM	DP	55 16.40	129 48.60	81	08	12	18	269.0		X		X	GLDL		
ALICE ARM	E 07	55 27.90	129 29.55	81	08	13	15	263.0		X		X	GLDL		
ALICE ARM	E 07	55 27.90	129 29.55	81	08	14	15	268.1		X		X	GLDL		
ALICE ARM	F 06	55 27.80	129 29.38	81	08	13	15	90.3		X		X	GLDL		
ALICE ARM	F 06	55 27.80	129 29.38	81	08	14	15	93.1		X		X	GLDL		

ALICE ARM	F 06	55	27.80	129	29.38	81	09	08	14	199.1	X	X	GLDL
ALICE ARM	F 08	55	27.80	129	29.73	81	09	08	15	103.1	X	X	GLDL
ALICE ARM	F167	55	25.20	129	40.11	81	08	03	16	77.1	X	X	GLDL
ALICE ARM	G 5	55	27.70	129	29.20	81	06	24	03	102.6	X	X	GLDL
ALICE ARM	G 5	55	27.70	129	29.20	81	06	25	01	102.5	X	X	GLDL
ALICE ARM	G 05	55	27.70	129	29.20	81	06	29	20	100.9	X	X	GLDL
ALICE ARM	G 05	55	27.70	129	29.20	81	07	07	15	108.9	X	X	GLDL
ALICE ARM	G 05	55	27.70	129	29.20	81	07	10	15	158.7	X	X	GLDL
ALICE ARM	G 05	55	27.70	129	29.20	81	07	15	18	207.9	X	X	GLDL
ALICE ARM	G 05	55	27.70	129	29.20	81	07	16	20	128.7	X	X	GLDL
ALICE ARM	G 05	55	27.70	129	29.20	81	07	20	14	92.0	X	X	GLDL
ALICE ARM	G 05	55	27.70	129	29.20	81	08	06	22	91.8	X	X	GLDL
ALICE ARM	G 05	55	27.70	129	29.20	81	08	07	15	88.0	X	X	GLDL
ALICE ARM	G 05	55	27.70	129	29.20	81	08	08	21	86.1	X	X	GLDL
ALICE ARM	G 05	55	27.70	129	29.20	81	08	09	15	85.2	X	X	GLDL
ALICE ARM	G 05	55	27.70	129	29.20	81	08	13	16	90.0	X	X	GLDL
ALICE ARM	G 05	55	27.70	129	29.20	81	08	14	15	92.5	X	X	GLDL
ALICE ARM	G 05	55	27.70	129	29.20	81	08	15	15	251.1	X	X	GLDL
ALICE ARM	G 05	55	27.70	129	29.20	81	08	17	15	90.8	X	X	GLDL
ALICE ARM	G 05	55	27.70	129	29.20	81	08	19	17	90.9	X	X	GLDL
ALICE ARM	G 05	55	27.70	129	29.20	81	08	23	21	100.7	X	X	GLDL
ALICE ARM	G 05	55	27.70	129	29.20	81	08	24	15	85.2	X	X	GLDL
ALICE ARM	G 05	55	27.70	129	29.20	81	08	25	20	91.2	X	X	GLDL
ALICE ARM	G 05	55	27.70	129	29.20	81	09	01	14	90.7	X	X	GLDL
ALICE ARM	G5	55	27.70	129	29.20	81	08	11	15	235.1	X	X	GLDL
ALICE ARM	GG	55	22.00	129	45.00	81	07	21	20	168.5	X	X	GLDL
ALICE ARM	GG	55	22.00	129	45.00	81	07	28	18	168.1	X	X	GLDL
ALICE ARM	GG	55	22.00	129	45.00	81	08	05	18	175.2	X	X	GLDL
ALICE ARM	GG	55	22.00	129	45.00	81	08	10	18	76.0	X	X	GLDL
ALICE ARM	GG	55	22.00	129	45.00	81	08	12	17	77.3	X	X	GLDL
ALICE ARM	GG	55	22.00	129	45.00	81	08	16	19	153.7	X	X	GLDL
ALICE ARM	GG	55	22.00	129	45.00	81	08	31	17	80.2	X	X	GLDL
ALICE ARM	GG	55	22.00	129	45.00	81	09	12	15	169.5	X	X	GLDL
ALICE ARM	H 08	55	27.60	129	29.73	81	09	08	15	106.0	X	X	GLDL
ALICE ARM	H1	55	37.03	129	48.00	81	09	07	18	219.1	X	X	GLDL
ALICE ARM	H10	55	25.80	129	43.41	81	09	07	23	312.0	X	X	GLDL
ALICE ARM	H11	55	23.30	129	42.75	81	09	07	23	186.0	X	X	GLDL
ALICE ARM	H11	55	23.30	129	42.75	81	09	09	18	44.0	X	X	GLDL
ALICE ARM	H11.	55	22.80	129	43.50	81	09	09	17	230.0	X	X	GLDL
ALICE ARM	H12	55	22.05	129	45.30	81	09	09	18	147.9	X	X	GLDL
ALICE ARM	H13	55	23.60	129	46.00	81	09	09	18	149.8	X	X	GLDL
ALICE ARM	H14	55	25.10	129	46.70	81	09	09	19	123.6	X	X	GLDL
ALICE ARM	H15	55	23.82	129	49.55	81	09	09	20	109.9	X	X	GLDL
ALICE ARM	H16	55	22.76	129	49.56	81	09	09	20	90.0	X	X	GLDL
ALICE ARM	H17	55	21.70	129	49.75	81	09	09	20	90.1	X	X	GLDL
ALICE ARM	H2	55	36.60	129	47.85	81	09	07	19	102.7	X	X	GLDL
ALICE ARM	H3	55	36.00	129	47.60	81	09	07	19	114.0	X	X	GLDL
ALICE ARM	H4	55	35.79	129	47.40	81	09	07	19	149.0	X	X	GLDL
ALICE ARM	H4.5	55	34.70	129	47.85	81	09	07	20	266.0	X	X	GLDL
ALICE ARM	H5	55	33.73	129	47.60	81	09	07	20	167.0	X	X	GLDL
ALICE ARM	H6	55	32.41	129	47.02	81	09	07	21	255.0	X	X	GLDL
ALICE ARM	H7	55	31.05	129	46.60	81	09	07	21	277.0	X	X	GLDL
ALICE ARM	H9	55	28.50	129	44.90	81	09	07	22	304.0	X	X	GLDL
ALICE ARM	HA	55	25.07	129	43.07	81	06	28	18	210.8	X	X	GLDL
ALICE ARM	HA00	55	36.00	129	47.50	81	08	26	17	94.7	X	X	GLDL
ALICE ARM	HA01	55	32.00	129	47.00	81	08	26	18	173.7	X	X	GLDL
ALICE ARM	HA02	55	28.00	129	44.00	81	08	18	18	203.8	X	X	GLDL
ALICE ARM	HA02	55	28.00	129	44.00	81	08	26	20	247.2	X	X	GLDL
ALICE ARM	HA03	55	27.00	129	43.90	81	08	18	18	255.9	X	X	GLDL
ALICE ARM	HH	55	12.60	129	52.00	81	08	12	19	268.1	X	X	GLDL
ALICE ARM	I 34	55	27.50	129	34.30	81	09	11	17	216.9	X	X	GLDL
ALICE ARM	II	55	8.90	129	54.40	81	08	12	20	267.9	X	X	GLDL
ALICE ARM	J 08	55	27.40	129	29.73	81	09	08	15	107.0	X	X	GLDL
ALICE ARM	JJ	55	6.00	129	57.90	81	08	12	21	263.6	X	X	GLDL
ALICE ARM	K 7	55	27.30	129	29.55	81	06	24	02	176.0	X	X	GLDL
ALICE ARM	K 7	55	27.30	129	29.55	81	06	25	01	101.9	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	06	27	23	99.3	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	06	30	20	66.3	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	02	19	140.0	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	03	19	92.1	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	04	20	101.5	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	06	21	177.0	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	07	19	173.8	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	11	21	98.1	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	12	20	77.8	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	13	18	145.9	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	14	19	81.9	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	15	18	74.8	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	16	19	77.0	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	18	20	140.9	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	19	21	74.0	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	20	15	88.0	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	21	17	139.0	X	X	GLDL

ALICE ARM	K 07	55	27.30	129	29.55	81	07	24	14	127.7	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	24	15	89.2	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	25	15	207.6	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	25	20	188.1	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	26	14	104.7	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	26	21	138.6	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	27	20	89.7	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	29	15	179.9	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	30	14	160.9	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	07	31	15	79.0	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	01	20	126.7	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	02	16	137.2	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	02	20	134.7	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	03	21	99.9	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	04	15	100.7	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	05	14	158.1	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	06	21	100.9	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	07	15	85.2	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	08	21	90.1	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	09	15	91.2	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	10	14	80.0	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	11	15	89.8	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	13	16	85.2	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	14	15	91.7	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	15	15	90.6	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	17	16	89.6	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	18	23	91.3	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	20	15	198.0	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	21	16	94.9	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	23	20	95.8	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	24	15	89.6	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	25	19	139.0	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	26	23	90.0	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	28	15	139.1	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	29	15	335.9	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	29	17	99.2	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	29	19	148.2	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	08	30	14	179.0	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	09	01	14	88.9	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	09	02	20	93.1	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	09	03	14	90.7	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	09	03	19	141.0	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	09	04	14	90.6	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	09	06	14	90.7	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	09	08	19	111.0	X	X	GLDL
ALICE ARM	K 07	55	27.30	129	29.55	81	09	10	14	85.9	X	X	GLDL
ALICE ARM	K 39	55	27.30	129	35.18	81	07	09	16	86.7	X	X	GLDL
ALICE ARM	K 39	55	27.30	129	35.18	81	07	27	15	103.7	X	X	GLDL
ALICE ARM	K 39	55	27.30	129	35.18	81	08	06	15	275.1	X	X	GLDL
ALICE ARM	K 39	55	27.30	129	35.18	81	08	08	15	130.0	X	X	GLDL
ALICE ARM	K 39	55	27.30	129	35.18	81	08	25	17	308.7	X	X	GLDL
ALICE ARM	K 39	55	27.30	129	35.18	81	09	11	15	215.0	X	X	GLDL
ALICE ARM	K 39	55	27.30	129	35.18	81	09	11	15	215.0	X	X	GLDL
ALICE ARM	K 44	55	27.30	129	36.06	81	06	23	21	.0	X	X	GLDL
ALICE ARM	K170	55	24.70	129	40.64	81	07	21	20	177.0	X	X	GLDL
ALICE ARM	K170	55	24.70	129	40.64	81	07	28	17	136.9	X	X	GLDL
ALICE ARM	K170	55	24.70	129	40.64	81	08	03	16	100.0	X	X	GLDL
ALICE ARM	K170	55	24.70	129	40.64	81	08	05	17	208.1	X	X	GLDL
ALICE ARM	K170	55	24.70	129	40.64	81	08	09	19	185.1	X	X	GLDL
ALICE ARM	K170	55	24.70	129	40.64	81	08	10	17	.0	X	X	GLDL
ALICE ARM	K170	55	24.70	129	40.64	81	08	12	16	189.7	X	X	GLDL
ALICE ARM	K170	55	24.70	129	40.64	81	08	16	17	138.9	X	X	GLDL
ALICE ARM	K170	55	24.70	129	40.64	81	08	23	15	89.0	X	X	GLDL
ALICE ARM	K170	55	24.70	129	40.64	81	08	31	16	134.7	X	X	GLDL
ALICE ARM	K170	55	24.70	129	40.64	81	09	02	15	184.2	X	X	GLDL
ALICE ARM	K170	55	24.70	129	40.64	81	09	07	00	159.0	X	X	GLDL
ALICE ARM	K170	55	24.70	129	40.64	81	09	09	17	358.2	X	X	GLDL
ALICE ARM	KK	55	0.70	130	1.20	81	08	12	22	134.0	X	X	GLDL
ALICE ARM	KL	55	24.00	129	46.20	81	08	31	18	178.9	X	X	GLDL
ALICE ARM	L 09	55	27.20	129	29.90	81	08	14	17	92.1	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	06	25	01	151.7	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	06	27	22	166.0	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	06	28	23	145.5	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	06	29	19	150.8	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	06	30	20	141.0	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	07	04	18	100.8	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	07	06	21	145.9	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	07	07	18	149.6	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	07	10	20	115.9	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	07	11	20	144.9	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	07	12	20	145.1	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	07	13	17	192.8	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	07	15	17	107.7	X	X	GLDL

ALICE ARM	L 10	55	27.20	129	30.08	81	07	16	18	106.0	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	07	17	20	102.6	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	07	20	15	95.7	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	07	22	18	98.6	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	07	24	15	94.3	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	07	29	17	139.9	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	07	30	17	101.2	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	07	31	19	85.9	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	08	03	20	187.8	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	08	04	16	100.3	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	08	06	21	135.9	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	08	07	15	90.2	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	08	08	21	152.3	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	08	09	15	159.0	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	08	19	20	133.7	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	08	21	15	346.7	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	08	23	19	178.7	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	08	24	17	138.5	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	08	25	18	178.9	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	08	29	15	136.6	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	09	03	15	141.3	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	09	03	17	142.7	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	09	04	15	91.0	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	09	08	15	107.9	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	09	10	15	147.0	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	81	09	11	22	103.6	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.17	81	07	31	19	136.9	X	X	GLDL
ALICE ARM	L 31	55	27.20	129	33.78	81	06	24	17	87.9	X	X	GLDL
ALICE ARM	L 31	55	27.20	129	33.78	81	06	26	15	102.1	X	X	GLDL
ALICE ARM	L 31	55	27.20	129	33.78	81	07	06	17	139.1	X	X	GLDL
ALICE ARM	L 31	55	27.20	129	33.78	81	07	08	16	208.2	X	X	GLDL
ALICE ARM	L 31	55	27.20	129	33.78	81	07	16	16	189.6	X	X	GLDL
ALICE ARM	L 31	55	27.20	129	33.78	81	07	27	16	266.7	X	X	GLDL
ALICE ARM	L 31	55	27.20	129	33.78	81	08	07	20	117.1	X	X	GLDL
ALICE ARM	L 31	55	27.20	129	33.78	81	08	08	17	269.7	X	X	GLDL
ALICE ARM	L 31	55	27.20	129	33.78	81	08	14	21	267.3	X	X	GLDL
ALICE ARM	L 31	55	27.20	129	33.78	81	08	27	16	207.6	X	X	GLDL
ALICE ARM	L 31	55	27.20	129	33.78	81	09	04	19	267.0	X	X	GLDL
ALICE ARM	L 31	55	27.20	129	33.78	81	09	11	16	274.7	X	X	GLDL
ALICE ARM	LL	55	25.25	129	46.00	81	08	31	18	109.9	X	X	GLDL
ALICE ARM	M 9	55	27.10	129	29.90	81	06	25	00	141.2	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	06	26	22	69.0	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	06	27	22	63.7	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	06	28	23	96.7	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	06	29	20	67.0	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	06	29	20	91.0	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	06	30	20	86.0	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	01	20	81.7	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	02	19	83.5	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	03	18	102.8	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	04	18	82.1	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	05	22	169.2	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	06	20	79.2	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	07	18	90.8	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	10	20	173.9	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	12	20	178.2	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	13	17	173.9	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	15	18	176.1	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	16	18	184.9	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	17	20	173.5	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	19	15	156.5	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	19	16	106.0	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	19	17	229.1	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	19	19	227.1	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	19	21	243.9	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	20	15	138.1	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	20	20	295.7	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	21	17	93.0	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	22	17	207.1	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	23	15	107.9	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	24	15	174.6	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	25	20	138.0	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	26	16	251.1	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	26	18	8.5	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	26	18	221.7	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	26	19	222.9	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	26	20	222.9	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	27	19	91.8	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	28	15	96.1	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	29	15	104.0	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	29	17	89.2	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	30	18	173.7	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	07	31	20	169.9	X	X	GLDL

ALICE ARM	M 09	55	27.10	129	29.90	81	08	01	20	91.1	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	02	16	187.6	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	02	18	189.2	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	02	19	189.7	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	03	20	132.3	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	04	15	96.7	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	05	15	96.9	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	06	21	169.7	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	07	17	159.1	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	08	20	130.8	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	09	15	132.0	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	11	18	96.3	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	13	16	92.8	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	17	17	95.3	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	19	20	90.7	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	20	16	91.6	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	21	15	159.9	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	22	15	149.2	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	22	21	165.1	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	23	20	162.6	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	24	16	81.0	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	25	18	164.0	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	27	18	94.8	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	28	14	139.2	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	29	15	90.0	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	29	17	85.1	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	29	17	139.0	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	08	29	20	91.0	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	09	01	15	95.5	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	09	01	17	183.9	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	09	03	15	88.9	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	09	03	17	95.0	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	09	03	19	95.0	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	09	04	15	128.8	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	09	06	15	91.9	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	09	08	18	228.8	X	X	GLDL
ALICE ARM	M 09	55	27.10	129	29.90	81	09	10	15	104.9	X	X	GLDL
ALICE ARM	M 12	55	27.10	129	30.43	81	09	03	16	170.6	X	X	GLDL
ALICE ARM	M 12	55	27.10	129	30.43	81	09	06	16	183.8	X	X	GLDL
ALICE ARM	M 12	55	27.10	129	30.43	81	09	08	15	171.0	X	X	GLDL
ALICE ARM	M 40	55	27.10	129	35.36	81	06	27	17	130.9	X	X	GLDL
ALICE ARM	M 40	55	27.10	129	35.36	81	07	12	17	89.1	X	X	GLDL
ALICE ARM	M 40	55	27.10	129	35.36	81	07	27	16	158.2	X	X	GLDL
ALICE ARM	M 40	55	27.10	129	35.36	81	08	06	15	155.3	X	X	GLDL
ALICE ARM	M 40	55	27.10	129	35.36	81	08	08	16	152.1	X	X	GLDL
ALICE ARM	M 40	55	27.10	129	35.36	81	08	10	16	228.0	X	X	GLDL
ALICE ARM	M 40	55	27.10	129	35.36	81	08	12	15	96.0	X	X	GLDL
ALICE ARM	M 40	55	27.10	129	35.36	81	08	13	21	248.0	X	X	GLDL
ALICE ARM	M 40	55	27.10	129	35.36	81	08	15	21	247.6	X	X	GLDL
ALICE ARM	M 40	55	27.10	129	35.36	81	08	20	18	208.9	X	X	GLDL
ALICE ARM	M 40	55	27.10	129	35.36	81	08	23	17	208.0	X	X	GLDL
ALICE ARM	M 40	55	27.10	129	35.36	81	08	25	17	198.6	X	X	GLDL
ALICE ARM	M 40	55	27.10	129	35.36	81	08	28	20	102.1	X	X	GLDL
ALICE ARM	M 40	55	27.10	129	35.36	81	08	30	18	335.0	X	X	GLDL
ALICE ARM	M 40	55	27.10	129	35.36	81	09	02	18	299.2	X	X	GLDL
ALICE ARM	M 40	55	27.10	129	35.36	81	09	09	15	249.8	X	X	GLDL
ALICE ARM	M 40	55	27.10	129	35.36	81	09	11	15	160.7	X	X	GLDL
ALICE ARM	M 40	55	27.10	129	35.36	81	09	11	15	160.7	X	X	GLDL
ALICE ARM	M 42	55	27.10	129	35.71	81	07	09	15	211.2	X	X	GLDL
ALICE ARM	M 53	55	27.10	129	37.65	81	08	15	22	267.7	X	X	GLDL
ALICE ARM	M 53	55	27.10	129	37.65	81	08	20	20	347.8	X	X	GLDL
ALICE ARM	M 53	55	27.10	129	37.65	81	09	02	17	192.9	X	X	GLDL
ALICE ARM	M 53	55	27.10	129	37.65	81	09	09	16	351.1	X	X	GLDL
ALICE ARM	MM	55	25.00	129	48.00	81	08	31	18	111.6	X	X	GLDL
ALICE ARM	N 08	55	27.00	129	29.73	81	06	26	22	158.6	X	X	GLDL
ALICE ARM	N 08	55	27.00	129	29.73	81	06	27	22	154.8	X	X	GLDL
ALICE ARM	N 08	55	27.00	129	29.73	81	06	28	23	160.7	X	X	GLDL
ALICE ARM	N 08	55	27.00	129	29.73	81	06	29	20	145.8	X	X	GLDL
ALICE ARM	N 08	55	27.00	129	29.73	81	06	30	20	85.9	X	X	GLDL
ALICE ARM	N 08	55	27.00	129	29.73	81	07	01	19	154.0	X	X	GLDL
ALICE ARM	N 08	55	27.00	129	29.73	81	07	02	18	101.9	X	X	GLDL
ALICE ARM	N 08	55	27.00	129	29.73	81	07	03	18	143.0	X	X	GLDL
ALICE ARM	N 08	55	27.00	129	29.73	81	07	04	19	139.7	X	X	GLDL
ALICE ARM	N 08	55	27.00	129	29.73	81	07	05	23	145.0	X	X	GLDL
ALICE ARM	N 08	55	27.00	129	29.73	81	07	06	20	148.1	X	X	GLDL
ALICE ARM	N 08	55	27.00	129	29.73	81	07	07	18	141.1	X	X	GLDL
ALICE ARM	N 08	55	27.00	129	29.73	81	07	08	22	157.7	X	X	GLDL
ALICE ARM	N 08	55	27.00	129	29.73	81	07	10	21	259.0	X	X	GLDL
ALICE ARM	N 08	55	27.00	129	29.73	81	07	11	21	153.6	X	X	GLDL
ALICE ARM	N 08	55	27.00	129	29.73	81	07	12	20	145.6	X	X	GLDL
ALICE ARM	N 08	55	27.00	129	29.73	81	07	13	17	114.0	X	X	GLDL
ALICE ARM	N 08	55	27.00	129	29.73	81	07	14	19	193.0	X	X	GLDL
ALICE ARM	N 08	55	27.00	129	29.73	81	07	15	18	136.7	X	X	GLDL

ALICE ARM	N	08	55	27.00	129	29.73	81	07	16	19	166.6	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	07	17	21	138.0	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	07	18	20	140.7	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	07	19	21	139.1	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	07	20	15	144.8	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	07	22	17	142.0	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	07	24	16	144.0	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	07	25	15	92.5	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	07	26	15	103.9	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	07	27	19	189.8	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	07	28	14	109.5	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	07	29	17	139.6	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	07	30	18	138.9	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	07	31	20	109.2	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	01	19	139.7	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	02	20	103.3	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	03	21	139.1	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	04	15	135.5	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	05	15	134.9	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	06	21	147.7	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	08	20	102.2	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	09	15	91.9	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	10	15	90.1	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	11	19	130.0	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	12	14	106.7	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	13	17	131.7	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	14	17	90.0	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	15	15	90.7	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	16	02	140.0	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	17	17	96.6	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	18	23	130.7	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	19	19	90.3	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	20	15	92.0	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	21	16	135.0	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	22	22	134.8	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	23	20	134.1	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	24	16	94.6	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	24	16	89.7	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	26	23	178.7	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	27	18	135.9	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	28	15	95.2	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	29	15	97.1	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	29	17	94.9	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	30	15	90.0	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	08	31	23	164.0	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	09	02	20	185.1	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	09	03	15	95.0	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	09	03	17	103.0	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	09	03	18	171.6	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	09	03	18	92.0	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	09	03	18	94.0	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	09	04	15	138.5	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	09	05	23	26.7	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	09	06	15	131.8	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	09	08	19	156.5	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	09	10	15	108.7	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.73	81	09	11	21	144.8	X	X	GLDL
ALICE ARM	N	08	55	27.00	129	29.82	81	07	31	20	137.3	X	X	GLDL
ALICE ARM	N	09	55	27.00	129	29.90	81	09	12	13	173.9	X	X	GLDL
ALICE ARM	N	11	55	27.00	129	30.26	81	08	13	17	91.3	X	X	GLDL
ALICE ARM	N	11	55	27.00	129	30.26	81	09	03	16	80.7	X	X	GLDL
ALICE ARM	N	11	55	27.00	129	30.26	81	09	06	15	92.0	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	06	27	21	153.0	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	06	28	22	151.2	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	06	29	18	160.2	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	06	30	19	183.7	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	01	18	80.7	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	02	18	175.0	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	03	18	177.9	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	04	18	207.8	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	05	22	268.1	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	06	19	179.7	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	07	17	115.2	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	08	21	120.6	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	10	20	144.5	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	11	20	164.5	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	13	17	178.8	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	14	18	145.0	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	15	16	108.1	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	15	17	191.7	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	16	18	107.1	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	17	20	93.9	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	18	14	73.2	X	X	GLDL

ALICE ARM	N	14	55	27.00	129	30.78	81	07	18	15	142.8	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	18	16	142.2	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	18	17	141.9	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	18	18	140.2	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	20	16	187.3	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	23	15	142.6	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	24	17	181.2	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	25	15	138.8	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	25	16	187.8	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	25	17	186.9	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	25	18	103.9	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	25	19	103.6	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	29	16	296.9	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	30	17	187.0	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	07	31	18	157.2	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	01	15	103.9	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	01	15	137.6	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	01	16	140.0	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	01	17	137.9	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	01	17	138.5	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	01	19	139.0	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	04	17	170.1	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	06	20	231.8	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	07	18	174.7	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	08	20	100.2	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	09	16	95.0	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	10	15	163.0	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	11	20	175.5	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	12	15	174.0	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	14	17	103.7	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	15	17	183.7	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	17	19	180.2	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	18	22	129.0	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	19	21	175.3	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	20	17	174.8	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	21	18	187.8	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	27	17	247.9	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	28	16	90.9	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	29	16	185.7	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	08	30	15	182.8	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	09	03	17	184.2	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	09	04	17	96.6	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	09	06	16	161.0	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	09	08	16	170.7	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	09	10	17	175.0	X	X	GLDL
ALICE ARM	N	14	55	27.00	129	30.78	81	09	11	20	247.7	X	X	GLDL
ALICE ARM	N	17	55	27.00	129	31.31	81	09	06	18	55.0	X	X	GLDL
ALICE ARM	N	17	55	27.00	129	31.31	81	09	06	18	137.0	X	X	GLDL
ALICE ARM	N	22	55	27.00	129	32.19	81	09	08	17	199.0	X	X	GLDL
ALICE ARM	N	24	55	27.00	129	32.54	81	06	24	20	202.2	X	X	GLDL
ALICE ARM	N	24	55	27.00	129	32.54	81	06	25	18	112.1	X	X	GLDL
ALICE ARM	N	24	55	27.00	129	32.54	81	07	01	16	209.1	X	X	GLDL
ALICE ARM	N	24	55	27.00	129	32.54	81	07	06	17	209.2	X	X	GLDL
ALICE ARM	N	24	55	27.00	129	32.54	81	07	08	17	132.8	X	X	GLDL
ALICE ARM	N	24	55	27.00	129	32.54	81	07	10	17	165.8	X	X	GLDL
ALICE ARM	N	24	55	27.00	129	32.54	81	07	13	15	108.9	X	X	GLDL
ALICE ARM	N	24	55	27.00	129	32.54	81	07	27	17	188.6	X	X	GLDL
ALICE ARM	N	24	55	27.00	129	32.54	81	07	30	16	269.2	X	X	GLDL
ALICE ARM	N	24	55	27.00	129	32.54	81	08	06	17	267.1	X	X	GLDL
ALICE ARM	N	24	55	27.00	129	32.54	81	08	07	20	270.3	X	X	GLDL
ALICE ARM	N	24	55	27.00	129	32.54	81	08	08	17	142.1	X	X	GLDL
ALICE ARM	N	24	55	27.00	129	32.54	81	08	11	22	204.6	X	X	GLDL
ALICE ARM	N	24	55	27.00	129	32.54	81	08	15	18	242.1	X	X	GLDL
ALICE ARM	N	24	55	27.00	129	32.54	81	09	11	17	130.2	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	06	24	17	142.9	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	06	26	16	171.9	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	06	27	18	211.0	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	07	01	16	209.5	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	07	06	17	199.0	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	07	08	16	208.1	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	07	09	17	158.5	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	07	11	17	180.6	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	07	12	17	207.8	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	07	16	15	96.9	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	07	20	18	355.2	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	07	22	22	32.9	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	07	27	16	148.2	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	07	29	16	256.6	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	08	07	20	141.0	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	08	08	17	271.0	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	08	14	20	269.2	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	08	17	21	101.2	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	08	19	23	198.1	X	X	GLDL

ALICE ARM	N	32	55	27.00	129	33.95	81	08	20	18	208.9	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	08	27	15	296.8	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	08	30	17	257.0	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	09	04	19	149.1	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	09	10	18	110.3	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	09	10	18	110.3	X	X	GLDL
ALICE ARM	N	32	55	27.00	129	33.95	81	09	11	16	151.1	X	X	GLDL
ALICE ARM	O	10	55	26.90	129	30.08	81	09	03	15	170.6	X	X	GLDL
ALICE ARM	O	10	55	26.90	129	30.08	81	09	06	15	103.0	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	06	24	23	87.8	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	06	26	22	166.5	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	06	27	21	102.9	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	06	28	22	101.2	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	06	29	18	106.6	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	06	30	19	140.0	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	01	18	101.1	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	02	18	154.9	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	03	18	157.9	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	04	18	180.8	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	05	22	100.1	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	06	20	138.6	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	07	17	109.0	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	08	22	177.0	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	11	20	109.0	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	12	18	162.9	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	13	17	142.8	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	14	17	114.0	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	15	17	142.8	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	16	18	143.7	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	18	15	107.6	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	18	16	104.1	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	18	17	104.9	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	18	17	104.0	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	18	18	104.2	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	18	21	138.9	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	19	15	140.8	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	19	16	190.7	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	19	17	141.7	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	19	20	140.6	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	20	16	140.6	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	21	17	143.2	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	22	20	171.0	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	22	20	91.2	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	22	20	186.9	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	23	15	103.1	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	24	17	139.0	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	25	16	137.9	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	25	16	139.0	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	25	18	139.7	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	25	19	103.1	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	26	15	90.1	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	26	17	142.1	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	26	18	140.2	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	26	20	139.9	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	27	18	175.1	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	28	15	145.3	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	29	15	138.9	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	29	17	104.3	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	30	17	139.6	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	07	31	18	102.2	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	01	15	100.9	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	01	15	100.7	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	01	16	102.0	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	01	17	100.5	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	01	18	104.0	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	01	19	102.2	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	02	16	225.6	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	02	17	225.9	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	02	19	236.7	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	03	20	225.7	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	04	17	103.7	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	06	20	100.1	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	07	17	131.8	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	08	20	175.0	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	10	15	130.0	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	11	20	131.6	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	12	14	129.7	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	13	18	160.2	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	14	17	101.6	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	15	16	140.3	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	16	02	100.2	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	17	18	140.1	X	X	GLDL
ALICE ARM	O	13	55	26.90	129	30.61	81	08	19	21	139.1	X	X	GLDL

ALICE ARM	O 13	55	26.90	129	30.61	81	08	20	16	139.8	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	08	21	17	140.0	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	08	22	21	134.8	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	08	23	18	16.0	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	08	24	17	154.6	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	08	25	18	237.8	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	08	26	22	188.7	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	08	27	17	99.7	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	08	28	17	100.9	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	08	29	18	138.1	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	08	29	18	175.9	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	08	29	18	175.9	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	08	29	20	138.1	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	08	30	15	136.7	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	09	01	15	139.6	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	09	01	17	249.1	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	09	01	18	139.6	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	09	01	20	239.0	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	09	02	20	248.6	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	09	03	16	136.1	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	09	04	17	101.9	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	09	06	16	123.1	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	09	10	17	98.2	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	81	09	11	20	100.1	X	X	GLDL
ALICE ARM	O 16	55	26.90	129	31.14	81	09	06	18	242.9	X	X	GLDL
ALICE ARM	O 16	55	26.90	129	31.14	81	09	08	16	152.2	X	X	GLDL
ALICE ARM	O 18	55	26.90	129	31.49	81	09	08	16	165.0	X	X	GLDL
ALICE ARM	O 19	55	26.90	129	31.66	81	07	23	16	236.7	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	06	24	20	128.0	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	06	27	20	211.3	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	06	30	17	209.1	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	07	01	18	149.2	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	07	02	16	212.0	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	07	03	16	213.8	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	07	04	16	208.1	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	07	06	16	163.0	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	07	07	17	158.7	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	07	10	17	133.6	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	07	11	18	114.9	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	07	13	15	208.0	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	07	14	17	134.9	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	07	15	16	128.1	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	07	16	16	155.6	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	07	20	16	104.3	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	07	23	16	139.7	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	07	24	17	104.2	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	07	30	16	119.2	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	07	31	16	103.6	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	08	04	18	138.9	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	08	06	18	172.2	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	08	07	18	104.6	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	08	08	19	228.8	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	08	11	20	98.3	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	08	17	21	248.2	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	08	21	18	100.1	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	08	24	19	237.8	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	08	28	18	239.1	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	09	06	18	55.0	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	09	08	17	146.0	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	09	10	18	248.6	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	81	09	10	18	248.6	X	X	GLDL
ALICE ARM	O 23	55	26.90	129	32.37	81	09	08	18	263.9	X	X	GLDL
ALICE ARM	O 41	55	26.90	129	35.54	81	07	27	16	265.8	X	X	GLDL
ALICE ARM	O 41	55	26.90	129	35.54	81	08	06	16	267.6	X	X	GLDL
ALICE ARM	O 41	55	26.90	129	35.54	81	08	08	16	274.0	X	X	GLDL
ALICE ARM	O 41	55	26.90	129	35.54	81	08	15	22	268.6	X	X	GLDL
ALICE ARM	O 41	55	26.90	129	35.54	81	09	11	16	356.6	X	X	GLDL
ALICE ARM	O 41	55	26.90	129	35.54	81	09	11	16	356.6	X	X	GLDL
ALICE ARM	OB	55	19.08	129	46.70	81	06	28	17	96.1	X	X	GLDL
ALICE ARM	OB 1	54	59.60	130	2.35	81	09	12	19	346.2	X	X	GLDL
ALICE ARM	OB2B	55	6.75	129	57.25	81	09	12	18	322.8	X	X	GLDL
ALICE ARM	OB3B	55	12.00	129	52.40	81	09	12	17	208.0	X	X	GLDL
ALICE ARM	P 12	55	26.80	129	30.43	81	06	24	23	176.1	X	X	GLDL
ALICE ARM	P 12	55	26.80	129	30.43	81	06	25	00	148.0	X	X	GLDL
ALICE ARM	P 12	55	26.80	129	30.43	81	06	25	20	132.3	X	X	GLDL
ALICE ARM	P 12	55	26.80	129	30.43	81	06	27	22	210.8	X	X	GLDL
ALICE ARM	P 12	55	26.80	129	30.43	81	06	28	23	209.8	X	X	GLDL
ALICE ARM	P 12	55	26.80	129	30.43	81	06	29	18	184.2	X	X	GLDL
ALICE ARM	P 12	55	26.80	129	30.43	81	06	30	18	169.0	X	X	GLDL
ALICE ARM	P 12	55	26.80	129	30.43	81	07	01	19	174.0	X	X	GLDL
ALICE ARM	P 12	55	26.80	129	30.43	81	07	02	17	170.7	X	X	GLDL
ALICE ARM	P 12	55	26.80	129	30.43	81	07	03	17	158.1	X	X	GLDL
ALICE ARM	P 12	55	26.80	129	30.43	81	07	04	17	208.9	X	X	GLDL

ALICE ARM	P	12	55	26.80	129	30.43	81	07	05	22	189.0	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	06	20	193.0	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	07	18	184.7	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	08	22	148.8	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	11	20	145.0	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	12	19	192.7	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	13	16	131.8	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	14	17	164.6	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	15	17	162.7	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	16	17	157.5	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	18	15	190.6	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	18	16	188.2	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	18	17	190.1	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	18	18	189.6	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	18	18	189.9	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	18	20	73.6	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	18	21	149.0	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	20	16	73.9	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	23	16	190.1	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	24	16	74.8	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	25	15	81.7	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	25	16	103.7	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	25	16	103.0	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	25	18	189.5	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	25	19	108.1	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	29	17	188.5	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	30	17	156.1	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	07	31	18	187.5	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	01	15	187.7	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	01	16	186.3	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	01	16	186.7	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	01	17	188.2	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	01	18	188.2	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	01	19	188.2	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	04	17	188.3	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	06	21	184.6	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	09	16	159.9	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	10	15	90.0	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	11	20	90.8	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	12	14	90.6	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	13	18	175.7	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	14	18	185.2	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	15	15	77.5	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	16	02	184.0	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	17	17	141.8	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	18	23	98.9	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	19	20	168.9	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	20	16	138.9	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	21	17	95.7	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	24	18	177.9	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	27	17	184.0	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	28	17	182.9	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	29	16	172.0	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	29	16	138.1	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	08	30	15	90.6	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	09	03	16	170.8	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	09	04	17	184.1	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	09	04	17	297.0	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	09	06	17	207.0	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	09	10	17	188.8	X	X	GLDL
ALICE ARM	P	12	55	26.80	129	30.43	81	09	11	21	175.0	X	X	GLDL
ALICE ARM	P	15	55	26.80	129	30.96	81	09	06	18	240.9	X	X	GLDL
ALICE ARM	P	20	55	26.80	129	31.84	81	07	23	16	109.7	X	X	GLDL
ALICE ARM	P	25	55	26.80	129	32.72	81	06	24	19	153.8	X	X	GLDL
ALICE ARM	P	25	55	26.80	129	32.72	81	06	26	18	202.3	X	X	GLDL
ALICE ARM	P	25	55	26.80	129	32.72	81	06	27	19	175.9	X	X	GLDL
ALICE ARM	P	25	55	26.80	129	32.72	81	06	28	21	192.6	X	X	GLDL
ALICE ARM	P	25	55	26.80	129	32.72	81	06	29	17	66.2	X	X	GLDL
ALICE ARM	P	25	55	26.80	129	32.72	81	06	30	17	99.8	X	X	GLDL
ALICE ARM	P	25	55	26.80	129	32.72	81	07	01	16	124.9	X	X	GLDL
ALICE ARM	P	25	55	26.80	129	32.72	81	07	02	15	137.7	X	X	GLDL
ALICE ARM	P	25	55	26.80	129	32.72	81	07	03	15	82.9	X	X	GLDL
ALICE ARM	P	25	55	26.80	129	32.72	81	07	04	15	90.7	X	X	GLDL
ALICE ARM	P	25	55	26.80	129	32.72	81	07	06	15	81.0	X	X	GLDL
ALICE ARM	P	25	55	26.80	129	32.72	81	07	07	16	208.7	X	X	GLDL
ALICE ARM	P	25	55	26.80	129	32.72	81	07	08	17	208.1	X	X	GLDL
ALICE ARM	P	25	55	26.80	129	32.72	81	07	10	16	85.5	X	X	GLDL
ALICE ARM	P	25	55	26.80	129	32.72	81	07	11	18	208.8	X	X	GLDL
ALICE ARM	P	25	55	26.80	129	32.72	81	07	12	17	208.2	X	X	GLDL
ALICE ARM	P	25	55	26.80	129	32.72	81	07	14	16	77.8	X	X	GLDL
ALICE ARM	P	25	55	26.80	129	32.72	81	07	15	15	207.7	X	X	GLDL
ALICE ARM	P	25	55	26.80	129	32.72	81	07	20	17	109.7	X	X	GLDL
ALICE ARM	P	25	55	26.80	129	32.72	81	07	27	18	144.0	X	X	GLDL

ALICE ARM	P 25	55 26.80	129 32.72	81 07 29 16	209.6	X	X GLDL
ALICE ARM	P 25	55 26.80	129 32.72	81 07 30 16	173.3	X	X GLDL
ALICE ARM	P 25	55 26.80	129 32.72	81 08 06 17	124.9	X	X GLDL
ALICE ARM	P 25	55 26.80	129 32.72	81 08 07 20	248.8	X	X GLDL
ALICE ARM	P 25	55 26.80	129 32.72	81 08 11 21	238.0	X	X GLDL
ALICE ARM	P 25	55 26.80	129 32.72	81 08 14 21	144.7	X	X GLDL
ALICE ARM	P 25	55 26.80	129 32.72	81 08 20 21	160.9	X	X GLDL
ALICE ARM	P 25	55 26.80	129 32.72	81 08 27 16	145.2	X	X GLDL
ALICE ARM	P 25	55 26.80	129 32.72	81 08 30 16	238.5	X	X GLDL
ALICE ARM	P 25	55 26.80	129 32.72	81 08 30 19	337.0	X	X GLDL
ALICE ARM	P 25	55 26.80	129 32.72	81 08 30 20	277.2	X	X GLDL
ALICE ARM	P 25	55 26.80	129 32.72	81 09 01 16	251.1	X	X GLDL
ALICE ARM	P 25	55 26.80	129 32.72	81 09 04 18	252.8	X	X GLDL
ALICE ARM	P 25	55 26.80	129 32.72	81 09 04 18	252.8	X	X GLDL
ALICE ARM	P 25	55 26.80	129 32.72	81 09 11 18	208.5	X	X GLDL
ALICE ARM	P 33	55 26.80	129 34.13	81 06 24 17	201.1	X	X GLDL
ALICE ARM	P 33	55 26.80	129 34.13	81 06 26 16	201.8	X	X GLDL
ALICE ARM	P 33	55 26.80	129 34.13	81 06 27 18	210.6	X	X GLDL
ALICE ARM	P 33	55 26.80	129 34.13	81 07 01 15	100.6	X	X GLDL
ALICE ARM	P 33	55 26.80	129 34.13	81 07 06 18	199.0	X	X GLDL
ALICE ARM	P 33	55 26.80	129 34.13	81 07 08 16	129.6	X	X GLDL
ALICE ARM	P 33	55 26.80	129 34.13	81 07 20 18	122.1	X	X GLDL
ALICE ARM	P 33	55 26.80	129 34.13	81 07 27 17	267.6	X	X GLDL
ALICE ARM	P 33	55 26.80	129 34.13	81 08 07 21	269.0	X	X GLDL
ALICE ARM	P 33	55 26.80	129 34.13	81 08 08 16	126.2	X	X GLDL
ALICE ARM	P 33	55 26.80	129 34.13	81 08 09 17	132.0	X	X GLDL
ALICE ARM	P 33	55 26.80	129 34.13	81 08 13 20	162.7	X	X GLDL
ALICE ARM	P 33	55 26.80	129 34.13	81 08 14 19	126.0	X	X GLDL
ALICE ARM	P 33	55 26.80	129 34.13	81 08 27 15	126.0	X	X GLDL
ALICE ARM	P 33	55 26.80	129 34.13	81 08 30 18	208.8	X	X GLDL
ALICE ARM	P 33	55 26.80	129 34.13	81 09 02 18	298.0	X	X GLDL
ALICE ARM	P 33	55 26.80	129 34.13	81 09 04 20	209.7	X	X GLDL
ALICE ARM	PI 2	54 49.00	130 15.00	81 09 12 21	178.7	X	X GLDL
ALICE ARM	Q 11	55 26.70	129 30.26	81 09 06 17	186.9	X	X GLDL
ALICE ARM	Q 13	55 26.70	129 30.61	81 09 06 17	117.0	X	X GLDL
ALICE ARM	Q 14	55 26.70	129 30.78	81 09 06 17	139.0	X	X GLDL
ALICE ARM	Q 16	55 26.70	129 31.14	81 08 02 18	228.2	X	X GLDL
ALICE ARM	Q 16	55 26.70	129 31.14	81 08 03 19	144.8	X	X GLDL
ALICE ARM	Q 16	55 26.70	129 31.14	81 08 06 20	157.7	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 06 24 20	92.6	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 06 26 18	201.5	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 06 27 20	103.0	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 06 28 21	210.0	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 06 29 18	210.0	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 06 30 17	100.0	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 01 18	169.1	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 02 17	101.8	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 03 17	102.7	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 04 16	90.2	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 06 16	199.2	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 07 16	149.7	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 08 20	159.0	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 08 20	99.9	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 10 18	208.5	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 11 19	134.6	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 12 18	208.2	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 15 16	113.1	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 16 17	113.8	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 17 18	95.0	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 19 15	188.8	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 19 17	136.7	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 19 18	190.2	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 19 20	184.9	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 21 17	188.7	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 22 21	51.0	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 22 21	217.2	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 22 21	83.7	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 22 22	84.8	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 24 18	108.9	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 26 16	190.1	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 26 17	189.5	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 26 18	188.5	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 26 20	187.7	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 29 15	188.6	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 30 16	108.7	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 07 31 17	109.9	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 08 02 15	267.0	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 08 02 17	105.5	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 08 02 18	134.9	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 08 04 18	109.7	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 08 06 18	108.7	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 08 07 18	105.0	X	X GLDL
ALICE ARM	Q 19	55 26.70	129 31.66	81 08 08 19	152.0	X	X GLDL

ALICE ARM	Q 19	55	26.70	129	31.66	81	08	10	15	96.1	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	08	11	20	100.2	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	08	13	19	127.8	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	08	14	18	137.3	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	08	15	17	100.7	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	08	17	20	156.7	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	08	19	22	94.7	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	08	20	17	100.2	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	08	21	18	105.3	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	08	23	18	297.0	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	08	24	18	149.5	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	08	25	17	148.1	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	08	27	17	293.0	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	08	28	18	149.6	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	08	30	16	93.2	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	09	01	16	184.8	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	09	01	16	277.0	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	09	01	17	238.6	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	09	01	18	185.2	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	09	01	18	249.0	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	09	01	20	241.0	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	09	02	19	262.6	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	09	04	18	136.2	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	09	04	18	136.2	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	09	06	19	165.0	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	09	08	17	108.0	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	09	09	15	108.0	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	09	10	18	160.1	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	09	10	18	160.1	X	X	GLDL
ALICE ARM	Q 19	55	26.70	129	31.66	81	09	11	20	181.7	X	X	GLDL
ALICE ARM	R 18	55	26.60	129	31.49	81	07	23	17	227.9	X	X	GLDL
ALICE ARM	R 25	55	26.60	129	32.72	81	07	27	18	266.1	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	06	24	18	152.2	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	06	26	17	127.8	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	06	27	18	211.5	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	07	01	17	208.8	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	07	02	16	213.8	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	07	03	16	213.8	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	07	04	15	208.2	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	07	06	15	207.9	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	07	07	15	98.8	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	07	08	18	207.9	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	07	11	17	209.1	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	07	13	15	115.2	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	07	15	15	140.6	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	07	20	17	295.6	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	07	26	16	221.7	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	08	02	15	98.8	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	08	06	18	268.1	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	08	07	19	159.0	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	08	08	18	115.9	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	08	11	21	154.0	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	08	13	20	234.6	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	08	15	20	110.2	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	08	30	17	279.4	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	09	02	19	298.2	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	09	04	18	297.0	X	X	GLDL
ALICE ARM	R 26	55	26.60	129	32.90	81	09	11	18	248.7	X	X	GLDL
ALICE ARM	R 34	55	26.60	129	34.30	81	06	25	17	97.0	X	X	GLDL
ALICE ARM	R 34	55	26.60	129	34.30	81	06	26	17	81.9	X	X	GLDL
ALICE ARM	R 34	55	26.60	129	34.30	81	07	06	18	208.8	X	X	GLDL
ALICE ARM	R 34	55	26.60	129	34.30	81	07	08	15	107.0	X	X	GLDL
ALICE ARM	R 34	55	26.60	129	34.30	81	07	09	17	129.9	X	X	GLDL
ALICE ARM	R 34	55	26.60	129	34.30	81	07	14	16	107.9	X	X	GLDL
ALICE ARM	R 34	55	26.60	129	34.30	81	07	20	18	158.3	X	X	GLDL
ALICE ARM	R 34	55	26.60	129	34.30	81	07	27	17	266.8	X	X	GLDL
ALICE ARM	R 34	55	26.60	129	34.30	81	08	07	21	269.1	X	X	GLDL
ALICE ARM	R 34	55	26.60	129	34.30	81	08	08	16	261.0	X	X	GLDL
ALICE ARM	R 34	55	26.60	129	34.30	81	08	09	17	269.0	X	X	GLDL
ALICE ARM	R 34	55	26.60	129	34.30	81	08	14	18	250.1	X	X	GLDL
ALICE ARM	R 34	55	26.60	129	34.30	81	08	27	15	90.0	X	X	GLDL
ALICE ARM	R 34	55	26.60	129	34.30	81	09	04	20	346.2	X	X	GLDL
ALICE ARM	R 61	55	26.60	129	39.06	81	08	16	16	268.6	X	X	GLDL
ALICE ARM	RED1	55	31.58	129	46.50	81	09	07	17	34.7	X	X	GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	06	24	21	202.0	X	X	GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	06	25	19	97.1	X	X	GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	06	27	21	153.3	X	X	GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	06	30	18	149.7	X	X	GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	07	01	17	124.7	X	X	GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	07	02	17	149.0	X	X	GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	07	04	17	208.0	X	X	GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	07	06	16	208.7	X	X	GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	07	07	16	207.5	X	X	GLDL

ALICE ARM	S 18	55	26.50	129	31.49	81	07	08	18	345.7	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	07	08	19	130.6	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	07	10	18	96.5	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	07	11	19	163.9	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	07	14	17	207.9	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	07	15	17	163.5	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	07	16	17	153.0	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	07	17	18	199.2	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	07	23	17	251.7	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	07	30	17	218.3	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	07	31	17	217.7	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	08	04	18	250.9	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	08	06	19	247.2	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	08	07	18	230.1	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	08	08	18	160.1	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	08	11	21	208.9	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	08	17	20	100.5	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	08	21	19	239.6	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	08	24	18	149.2	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	08	28	18	135.3	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	09	06	19	275.9	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	09	08	18	152.0	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	09	10	18	48.9	X	X GLDL
ALICE ARM	S 18	55	26.50	129	31.49	81	09	10	18	139.2	X	X GLDL
ALICE ARM	SI01	55	25.30	129	40.28	81	09	05	15	119.9	X	X GLDL
ALICE ARM	SI02	55	25.30	129	40.28	81	09	05	16	27.7	X	X GLDL
ALICE ARM	SI03	55	25.30	129	40.28	81	09	05	16	26.8	X	X GLDL
ALICE ARM	SI06	55	25.30	129	40.28	81	09	05	17	26.0	X	X GLDL
ALICE ARM	SI07	55	25.30	129	40.28	81	09	05	17	26.0	X	X GLDL
ALICE ARM	SI08	55	25.30	129	40.28	81	09	05	17	26.7	X	X GLDL
ALICE ARM	SI09	55	25.30	129	40.28	81	09	05	17	26.7	X	X GLDL
ALICE ARM	SI10	55	25.30	129	40.28	81	09	05	18	27.1	X	X GLDL
ALICE ARM	SI11	55	25.30	129	40.28	81	09	05	18	27.0	X	X GLDL
ALICE ARM	SI12	55	25.30	129	40.28	81	09	05	18	27.0	X	X GLDL
ALICE ARM	SI14	55	25.30	129	40.28	81	09	05	18	27.0	X	X GLDL
ALICE ARM	SI15	55	25.30	129	40.28	81	09	05	19	27.0	X	X GLDL
ALICE ARM	SI18	55	25.30	129	40.28	81	09	05	19	27.0	X	X GLDL
ALICE ARM	SI19	55	25.30	129	40.28	81	09	05	20	27.1	X	X GLDL
ALICE ARM	SI20	55	25.30	129	40.28	81	09	05	20	27.1	X	X GLDL
ALICE ARM	SI23	55	25.30	129	40.28	81	09	05	21	17.5	X	X GLDL
ALICE ARM	SI24	55	25.30	129	40.28	81	09	05	21	26.9	X	X GLDL
ALICE ARM	SI25	55	25.30	129	40.28	81	09	05	21	25.8	X	X GLDL
ALICE ARM	SI26	55	25.30	129	40.28	81	09	05	21	25.9	X	X GLDL
ALICE ARM	SI27	55	25.30	129	40.28	81	09	05	22	26.0	X	X GLDL
ALICE ARM	T 18	55	26.40	129	31.49	81	07	23	17	158.0	X	X GLDL
ALICE ARM	T 27	55	26.40	129	33.07	81	06	24	18	201.1	X	X GLDL
ALICE ARM	T 27	55	26.40	129	33.07	81	06	26	17	133.3	X	X GLDL
ALICE ARM	T 27	55	26.40	129	33.07	81	07	01	17	208.8	X	X GLDL
ALICE ARM	T 27	55	26.40	129	33.07	81	07	06	18	199.3	X	X GLDL
ALICE ARM	T 27	55	26.40	129	33.07	81	07	08	18	188.6	X	X GLDL
ALICE ARM	T 27	55	26.40	129	33.07	81	07	10	16	95.6	X	X GLDL
ALICE ARM	T 27	55	26.40	129	33.07	81	07	15	15	108.1	X	X GLDL
ALICE ARM	T 27	55	26.40	129	33.07	81	07	20	17	268.0	X	X GLDL
ALICE ARM	T 27	55	26.40	129	33.07	81	07	27	18	268.1	X	X GLDL
ALICE ARM	T 27	55	26.40	129	33.07	81	07	30	15	105.1	X	X GLDL
ALICE ARM	T 27	55	26.40	129	33.07	81	08	06	18	267.9	X	X GLDL
ALICE ARM	T 27	55	26.40	129	33.07	81	08	07	19	230.2	X	X GLDL
ALICE ARM	T 27	55	26.40	129	33.07	81	08	08	18	249.8	X	X GLDL
ALICE ARM	T 27	55	26.40	129	33.07	81	08	11	21	130.2	X	X GLDL
ALICE ARM	T 27	55	26.40	129	33.07	81	09	11	19	125.1	X	X GLDL
ALICE ARM	U 67	55	26.30	129	40.11	81	06	28	20	200.0	X	X GLDL
ALICE ARM	U 67	55	26.30	129	40.11	81	07	05	14	198.2	X	X GLDL
ALICE ARM	U 67	55	26.30	129	40.11	81	07	12	15	109.2	X	X GLDL
ALICE ARM	U 67	55	26.30	129	40.11	81	07	21	21	79.1	X	X GLDL
ALICE ARM	U 67	55	26.30	129	40.11	81	07	28	16	190.1	X	X GLDL
ALICE ARM	U 67	55	26.30	129	40.11	81	08	03	17	185.2	X	X GLDL
ALICE ARM	U 67	55	26.30	129	40.11	81	08	05	16	101.0	X	X GLDL
ALICE ARM	U 67	55	26.30	129	40.11	81	08	09	18	131.0	X	X GLDL
ALICE ARM	U 67	55	26.30	129	40.11	81	08	16	16	262.6	X	X GLDL
ALICE ARM	U 67	55	26.30	129	40.11	81	08	18	20	209.3	X	X GLDL
ALICE ARM	U 67	55	26.30	129	40.11	81	08	31	15	238.0	X	X GLDL
ALICE ARM	V 66	55	26.20	129	39.94	81	06	28	20	161.1	X	X GLDL
ALICE ARM	V 66	55	26.20	129	39.94	81	07	05	14	85.5	X	X GLDL
ALICE ARM	V 66	55	26.20	129	39.94	81	07	12	16	208.7	X	X GLDL
ALICE ARM	V 66	55	26.20	129	39.94	81	07	28	16	213.7	X	X GLDL
ALICE ARM	V 66	55	26.20	129	39.94	81	08	03	18	215.9	X	X GLDL
ALICE ARM	V 66	55	26.20	129	39.94	81	08	10	17	139.9	X	X GLDL
ALICE ARM	V 66	55	26.20	129	39.94	81	08	12	16	268.2	X	X GLDL
ALICE ARM	V 66	55	26.20	129	39.94	81	08	16	16	215.0	X	X GLDL
ALICE ARM	V 66	55	26.20	129	39.94	81	08	18	20	208.9	X	X GLDL
ALICE ARM	V 66	55	26.20	129	39.94	81	08	23	16	79.7	X	X GLDL
ALICE ARM	V 66	55	26.20	129	39.94	81	08	25	15	104.5	X	X GLDL
ALICE ARM	V 66	55	26.20	129	39.94	81	08	26	21	249.1	X	X GLDL

ALICE ARM	V 66	55	26.20	129	39.94	81	08	31	15	209.3		X		X	GLDL		
ALICE ARM	V 66	55	26.20	129	39.94	81	09	02	16	199.9		X		X	GLDL		
ALICE ARM	V 66	55	26.20	129	39.94	81	09	12	14	99.8		X		X	GLDL		
ALICE ARM	W 65	55	26.10	129	39.76	81	06	28	19	160.9		X		X	GLDL		
ALICE ARM	W 65	55	26.10	129	39.76	81	07	05	14	95.8		X		X	GLDL		
ALICE ARM	W 65	55	26.10	129	39.76	81	07	12	16	208.7		X		X	GLDL		
ALICE ARM	W 65	55	26.10	129	39.76	81	07	28	16	194.6		X		X	GLDL		
ALICE ARM	W 65	55	26.10	129	39.76	81	08	03	18	188.9		X		X	GLDL		
ALICE ARM	W 65	55	26.10	129	39.76	81	08	09	18	199.9		X		X	GLDL		
ALICE ARM	W 65	55	26.10	129	39.76	81	08	16	17	204.6		X		X	GLDL		
ALICE ARM	W 65	55	26.10	129	39.76	81	08	18	21	201.0		X		X	GLDL		
ALICE ARM	W 65	55	26.10	129	39.76	81	08	31	16	198.9		X		X	GLDL		
ALICE ARM	XX	55	19.08	129	46.70	81	07	05	16	148.9		X		X	GLDL		
ALICE ARM	XX	55	19.08	129	46.70	81	08	05	19	180.6		X		X	GLDL		
ALICE ARM	XX	55	19.08	129	46.70	81	08	10	19	174.2		X		X	GLDL		
ALICE ARM	XX	55	19.08	129	46.70	81	08	12	17	170.3		X		X	GLDL		
ALICE ARM	XX	55	19.08	129	46.70	81	08	16	19	188.5		X		X	GLDL		
ALICE ARM	Y 67	55	25.90	129	40.11	81	09	09	16	274.7		X		X	GLDL		
ALICE ARM	YY	55	25.07	129	43.07	81	07	05	15	207.8		X		X	GLDL		
ALICE ARM	YY	55	25.07	129	43.07	81	07	21	19	226.9		X		X	GLDL		
ALICE ARM	YY	55	25.07	129	43.07	81	07	28	17	79.0		X		X	GLDL		
ALICE ARM	YY	55	25.07	129	43.07	81	08	05	17	82.8		X		X	GLDL		
ALICE ARM	YY	55	25.07	129	43.07	81	08	16	18	70.3		X		X	GLDL		
ALICE ARM	YY	55	25.07	129	43.07	81	08	18	17	268.3		X		X	GLDL		
ALICE ARM	YY	55	25.07	129	43.07	81	08	31	22	79.7		X		X	GLDL		
ALICE ARM	YY	55	25.07	129	43.07	81	09	12	15	247.0		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 81-0057
YEAR:1981 VESSEL/AGENCY: AMAX,DOBROCKY

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
ALICE ARM	17.5	55	26.00	129	40.05	81	4	11	21	208.5		X		X	GLDL		
ALICE ARM	AA	55	27.90	129	29.25	81	4	12	3	88.5		X		X	GLDL		
ALICE ARM	CC	55	26.69	129	31.80	81	4	12	0	195.3		X		X	GLDL		
ALICE ARM	EE	55	27.15	129	37.05	81	4	11	22	324.4		X		X	GLDL		
ALICE ARM	HH	55	24.75	129	40.75	81	4	11	19	65.4		X		X	GLDL		
ALICE ARM	OI-1	55	21.80	129	45.37	81	4	11	18	174.9		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 81-0058
YEAR:1981 VESSEL/AGENCY: AMAX,DOBROCKY

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
ALICE ARM	17.5	55	26.00	129	40.05	81	7	28	23	197.3		X		X	GLDL		
ALICE ARM	AA	55	27.90	129	29.25	81	7	29	3	91.8		X		X	GLDL		
ALICE ARM	CC	55	26.69	129	31.80	81	7	29	2	252.6		X		X	GLDL		
ALICE ARM	EE	55	27.15	129	37.05	81	7	29	0	367.5		X		X	GLDL		
ALICE ARM	HH	55	24.75	129	40.75	81	7	28	22	74.8		X		X	GLDL		
ALICE ARM	OI-1	55	21.80	129	45.37	81	7	28	21	187.3		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 81-0059
YEAR:1981 VESSEL/AGENCY: AMAX,DOBROCKY

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
ALICE ARM	17.5	55	26.00	129	40.05	81	9	24	19	232.9		X		X	GLDL		
ALICE ARM	AA	55	27.90	129	29.25	81	9	24	22	92.8		X		X	GLDL		
ALICE ARM	CC	55	26.69	129	31.80	81	9	24	21	232.7		X		X	GLDL		
ALICE ARM	EE	55	27.15	129	37.05	81	9	24	20	348.8		X		X	GLDL		
ALICE ARM	HH	55	24.75	129	40.75	81	9	24	18	77.7		X		X	GLDL		
ALICE ARM	OI-1	55	21.80	129	45.37	81	9	24	17	186.7		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 81-0060
YEAR:1981 VESSEL/AGENCY: AMAX,DOBROCKY

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
ALICE ARM	17.5	55	26.00	129	40.05	81	11	21	23	162.4		X		X	GLDL		
ALICE ARM	AA	55	27.90	129	29.25	81	11	22	5	96.1		X		X	GLDL		
ALICE ARM	CC	55	26.69	129	31.80	81	11	22	3	257.2		X		X	GLDL		
ALICE ARM	EE	55	27.15	129	37.05	81	11	22	0	347.4		X		X	GLDL		
ALICE ARM	HH	55	24.75	129	40.75	81	11	21	21	77.1		X		X	GLDL		
ALICE ARM	OI-1	55	21.80	129	45.37	81	11	21	19	191.3		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 81-0061
YEAR:1981 VESSEL/AGENCY: AMAX,DOBROCKY

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
ALICE ARM	17.5	55	26.00	129	40.05	81	5	23	22	186.5		X		X	GLDL		
ALICE ARM	AA	55	27.90	129	29.25	81	5	24	3	96.2		X		X	GLDL		
ALICE ARM	CC	55	26.69	129	31.80	81	5	24	2	221.6		X		X	GLDL		
ALICE ARM	EE	55	27.15	129	37.05	81	5	23	23	357.3		X		X	GLDL		
ALICE ARM	HH	55	24.75	129	40.75	81	5	23	21	76.6		X		X	GLDL		
ALICE ARM	OI-1	55	21.80	129	45.37	81	5	23	19	176.4		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 81-0062
YEAR:1981 VESSEL/AGENCY: AMAX,DOBROCKY

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
ALICE ARM	17.5	55	26.00	129	40.05	81	6	28	20	207.4		X		X	GLDL		
ALICE ARM	AA	55	27.90	129	29.25	81	6	28	16	92.2		X		X	GLDL		
ALICE ARM	CC	55	26.69	129	31.80	81	6	28	18	252.5		X		X	GLDL		
ALICE ARM	EE	55	27.15	129	37.05	81	6	28	19	338.1		X		X	GLDL		
ALICE ARM	HH	55	24.75	129	40.75	81	6	28	21	72.9		X		X	GLDL		
ALICE ARM	OI-1	55	21.80	129	45.37	81	6	28	22	182.5		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 81-0063
YEAR:1981 VESSEL/AGENCY: AMAX,DOBROCKY

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
ALICE ARM	17.5	55	26.00	129	40.05	81	8	27	19	207.0		X		X	GLDL		
ALICE ARM	AA	55	27.90	129	29.25	81	8	27	23	92.9		X		X	GLDL		
ALICE ARM	CC	55	26.69	129	31.80	81	8	27	22	252.4		X		X	GLDL		
ALICE ARM	EE	55	27.15	129	37.05	81	8	27	21	372.8		X		X	GLDL		
ALICE ARM	HH	55	24.75	129	40.75	81	8	27	19	77.2		X		X	GLDL		
ALICE ARM	OI-1	55	21.80	129	45.37	81	8	27	17	191.8		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 81-0064
YEAR:1981 VESSEL/AGENCY: AMAX,DOBROCKY

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
ALICE ARM	17.5	55	26.00	129	40.05	81	10	27	20	197.8		X		X	GLDL		
ALICE ARM	AA	55	27.90	129	29.25	81	10	27	16	95.8		X		X	GLDL		
ALICE ARM	CC	55	26.69	129	31.80	81	10	27	17	241.6		X		X	GLDL		
ALICE ARM	EE	55	27.15	129	37.05	81	10	27	19	372.1		X		X	GLDL		
ALICE ARM	HH	55	24.75	129	40.75	81	10	27	20	82.7		X		X	GLDL		
ALICE ARM	OI-1	55	21.80	129	45.37	81	10	27	22	203.1		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 81-0065
YEAR:1981 VESSEL/AGENCY: AMAX,DOBROCKY

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
ALICE ARM	17.5	55	26.00	129	40.05	81	12	19	22	191.7		X		X	GLDL		
ALICE ARM	AA	55	27.90	129	29.25	81	12	20	3	87.6		X		X	GLDL		
ALICE ARM	CC	55	26.69	129	31.80	81	12	20	1	217.8		X		X	GLDL		
ALICE ARM	EE	55	27.15	129	37.05	81	12	19	23	348.5		X		X	GLDL		
ALICE ARM	HH	55	24.75	129	40.75	81	12	19	21	72.6		X		X	GLDL		
ALICE ARM	OI-1	55	21.80	129	45.37	81	12	19	20	178.1		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 81-0066
YEAR:1981 VESSEL/AGENCY: EPS

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
ALICE ARM	20	55	19.15	129	46.60	81	5	21	23	186.7		X		X	PLES		
ALICE ARM	D- 3	55	28.00	129	28.85	81	5	31	3	94.7		X		X	PLES		
ALICE ARM	D- 4	55	28.00	129	29.02	81	5	27	8	99.6		X		X	PLES		
ALICE ARM	E- 3	55	27.90	129	28.85	81	5	27	3	92.9		X		X	PLES		
ALICE ARM	E- 5	55	27.90	129	29.20	81	5	31	4	98.1		X		X	PLES		
ALICE ARM	E- 7	55	27.90	129	29.55	81	5	31	4	74.3		X		X	PLES		
ALICE ARM	E- 7	55	27.90	129	29.55	81	6	2	5	96.9		X		X	PLES		
ALICE ARM	E- 7	55	27.90	129	29.55	81	6	6	10	99.0		X		X	PLES		

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ALICE ARM      E- 7   55 27.90 129 29.55   81  6  7 22 100.5          X        X PLES
ALICE ARM      F- 6   55 27.80 129 29.38   81  5 27 18 104.2          X        X PLES
ALICE ARM      F- 6   55 27.80 129 29.38   81  6  2  4  94.9          X        X PLES
ALICE ARM      F- 6   55 27.80 129 29.38   81  6  6 10  94.2          X        X PLES
ALICE ARM      F- 6   55 27.80 129 29.38   81  6  7 22  95.7          X        X PLES
ALICE ARM      G- 5   55 27.70 129 29.20   81  5 27  4  98.2          X        X PLES
ALICE ARM      G- 5   55 27.70 129 29.20   81  5 31  2  75.0          X        X PLES
ALICE ARM      G- 5   55 27.70 129 29.20   81  6  2  4  78.4          X        X PLES
ALICE ARM      G- 5   55 27.70 129 29.20   81  6  6 10  86.1          X        X PLES
ALICE ARM      G- 5   55 27.70 129 29.20   81  6  7 22  92.1          X        X PLES
ALICE ARM      G- 5   55 27.70 129 29.20   81  6  8 16 106.4          X        X PLES
ALICE ARM      G- 5   55 27.70 129 29.20   81  6  9 16  96.3          X        X PLES
ALICE ARM      G- 5   55 27.70 129 29.20   81  6 10 16  97.4          X        X PLES
ALICE ARM      G- 5   55 27.70 129 29.20   81  6 12 17  95.4          X        X PLES
ALICE ARM      G- 5   55 27.70 129 29.20   81  6 13 16 100.3          X        X PLES
ALICE ARM      G- 5   55 27.70 129 29.20   81  6 15  0  86.7          X        X PLES
ALICE ARM      G- 5   55 27.70 129 29.20   81  6 15 16  93.4          X        X PLES
ALICE ARM      G- 5   55 27.70 129 29.20   81  6 16 23  88.4          X        X PLES
ALICE ARM      G- 5   55 27.70 129 29.20   81  6 17 16  83.2          X        X PLES
ALICE ARM      G- 5   55 27.70 129 29.20   81  6 19 16  89.7          X        X PLES
ALICE ARM      G- 5   55 27.70 129 29.20   81  6 20 16  97.7          X        X PLES
ALICE ARM      H- 1                        81  6  1 23 274.3          X        X PLES
ALICE ARM      H- 2                        81  6  2  0 171.2          X        X PLES
ALICE ARM      H- 7   55 27.60 129 29.55   81  6  7 21  99.5          X        X PLES
ALICE ARM      H- 7   55 27.60 129 29.55   81  6 10 16 103.0          X        X PLES
ALICE ARM      H- 7   55 27.60 129 29.55   81  6 13 17 102.7          X        X PLES
ALICE ARM      H- 7   55 27.60 129 29.55   81  6 15  0  98.5          X        X PLES
ALICE ARM      H- 7   55 27.60 129 29.55   81  6 15 16 106.5          X        X PLES
ALICE ARM      H- 8   55 27.60 129 29.73   81  5 27 17 101.0          X        X PLES
ALICE ARM      H- 8   55 27.60 129 29.73   81  5 31  5 109.1          X        X PLES
ALICE ARM      I- 7   55 27.50 129 29.55   81  5 27  4  98.9          X        X PLES
ALICE ARM      I- 7   55 27.50 129 29.55   81  5 31  1 105.5          X        X PLES
ALICE ARM      I- 7   55 27.50 129 29.55   81  6  6 11 102.5          X        X PLES
ALICE ARM      J- 6   55 27.40 129 29.38   81  5 24  8  51.5          X        X PLES
ALICE ARM      J- 6   55 27.40 129 29.38   81  5 31  0  94.8          X        X PLES
ALICE ARM      J- 8   55 27.40 129 29.73   81  6  6 10  82.8          X        X PLES
ALICE ARM      K- 7   55 27.30 129 29.55   81  6  6 10 103.9          X        X PLES
ALICE ARM      K- 7   55 27.30 129 29.55   81  6  7 21 104.1          X        X PLES
ALICE ARM      K- 7   55 27.30 129 29.55   81  6  8 17 105.8          X        X PLES
ALICE ARM      K- 7   55 27.30 129 29.55   81  6  9 16 106.3          X        X PLES
ALICE ARM      K- 7   55 27.30 129 29.55   81  6 10 16 105.7          X        X PLES
ALICE ARM      K- 7   55 27.30 129 29.55   81  6 13 17 109.9          X        X PLES
ALICE ARM      K- 7   55 27.30 129 29.55   81  6 14 23 107.8          X        X PLES
ALICE ARM      K- 7   55 27.30 129 29.55   81  6 17 17 108.4          X        X PLES
ALICE ARM      K- 7   55 27.30 129 29.55   81  6 19 16 112.4          X        X PLES
ALICE ARM      K- 7   55 27.30 129 29.55   81  6 20 16 109.5          X        X PLES
ALICE ARM      K- 7   55 27.30 129 29.55   81  6 21 16 115.1          X        X PLES
ALICE ARM      K-39   55 27.30 129 35.18   81  6 18 19 205.1          X        X PLES
ALICE ARM      K-39   55 27.30 129 35.18   81  6 19 20 207.7          X        X PLES
ALICE ARM      K-40   55 27.30 129 35.36   81  6 14 17 168.2          X        X PLES
ALICE ARM      K-40   55 27.30 129 35.36   81  6 15 23 126.1          X        X PLES
ALICE ARM      K-44   55 27.30 129 36.06   81  6 15 23 190.0          X        X PLES
ALICE ARM      K-44   55 27.30 129 36.06   81  6 16 17 204.1          X        X PLES
ALICE ARM      K-44   55 27.30 129 36.06   81  6 17 20 187.0          X        X PLES
ALICE ARM      K-44   55 27.30 129 36.06   81  6 19 20 208.3          X        X PLES
ALICE ARM      L- 6   55 27.20 129 29.38   81  5 24  8  75.0          X        X PLES
ALICE ARM      L- 6   55 27.20 129 29.38   81  5 29 19  64.8          X        X PLES
ALICE ARM      L- 6   55 27.20 129 29.38   81  6  6  9  84.8          X        X PLES
ALICE ARM      L- 8   55 27.20 129 29.73   81  5 24  8  94.3          X        X PLES
ALICE ARM      L- 8   55 27.20 129 29.73   81  5 26  8  90.5          X        X PLES
ALICE ARM      L- 8   55 27.20 129 29.73   81  5 31  0 118.9          X        X PLES
ALICE ARM      L- 8   55 27.20 129 29.73   81  6  6 11  86.0          X        X PLES
ALICE ARM      L-10   55 27.20 129 30.08   81  6  2  3 126.8          X        X PLES
ALICE ARM      L-10   55 27.20 129 30.08   81  6  6  7 165.1          X        X PLES
ALICE ARM      L-10   55 27.20 129 30.08   81  6  7 17 113.8          X        X PLES
ALICE ARM      L-10   55 27.20 129 30.08   81  6  8 18 137.2          X        X PLES
ALICE ARM      L-10   55 27.20 129 30.08   81  6 10 17 186.8          X        X PLES
ALICE ARM      L-10   55 27.20 129 30.08   81  6 13 17 104.0          X        X PLES
ALICE ARM      L-10   55 27.20 129 30.08   81  6 14 23 130.8          X        X PLES
ALICE ARM      L-10   55 27.20 129 30.08   81  6 17 17  89.5          X        X PLES
ALICE ARM      L-10   55 27.20 129 30.08   81  6 19 17  86.8          X        X PLES
ALICE ARM      L-10   55 27.20 129 30.08   81  6 20 17 108.6          X        X PLES
ALICE ARM      L-10   55 27.20 129 30.08   81  6 21 17 129.2          X        X PLES
ALICE ARM      L-30   55 27.20 129 33.60   81  6 11 22 178.5          X        X PLES
ALICE ARM      L-30   55 27.20 129 33.60   81  6 13 21 117.7          X        X PLES
ALICE ARM      L-31   55 27.20 129 33.78   81  6 18 22 183.1          X        X PLES
ALICE ARM      L-31   55 27.20 129 33.78   81  6 19 20 194.7          X        X PLES
ALICE ARM      L-31   55 27.20 129 33.78   81  6 21 20 159.6          X        X PLES
ALICE ARM      L-36   55 27.20 129 34.66   81  6 16 18 192.0          X        X PLES
ALICE ARM      M- 7   55 27.10 129 29.55   81  5 24 21  75.4          X        X PLES
ALICE ARM      M- 7   55 27.10 129 29.55   81  5 29 18  67.7          X        X PLES
ALICE ARM      M- 9   55 27.10 129 29.90   81  6  2  2 149.0          X        X PLES
ALICE ARM      M- 9   55 27.10 129 29.90   81  6  6  6 141.8          X        X PLES
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ALICE ARM	M- 9	55	27.10	129	29.90	81	6	7	16	170.1	X	X	PLES
ALICE ARM	M- 9	55	27.10	129	29.90	81	6	8	17	131.5	X	X	PLES
ALICE ARM	M- 9	55	27.10	129	29.90	81	6	10	17	141.6	X	X	PLES
ALICE ARM	M- 9	55	27.10	129	29.90	81	6	13	17	126.2	X	X	PLES
ALICE ARM	M- 9	55	27.10	129	29.90	81	6	14	23	149.9	X	X	PLES
ALICE ARM	M- 9	55	27.10	129	29.90	81	6	17	17	121.8	X	X	PLES
ALICE ARM	M- 9	55	27.10	129	29.90	81	6	19	16	152.6	X	X	PLES
ALICE ARM	M- 9	55	27.10	129	29.90	81	6	20	16	155.6	X	X	PLES
ALICE ARM	M- 9	55	27.10	129	29.90	81	6	21	17	155.3	X	X	PLES
ALICE ARM	M-11	55	27.10	129	30.26	81	5	27	6	183.6	X	X	PLES
ALICE ARM	M-26	55	27.10	129	32.90	81	6	13	3	159.1	X	X	PLES
ALICE ARM	M-31	55	27.10	129	33.78	81	6	16	19	194.1	X	X	PLES
ALICE ARM	M-40	55	27.10	129	35.36	81	6	14	17	205.7	X	X	PLES
ALICE ARM	M-40	55	27.10	129	35.36	81	6	15	19	201.6	X	X	PLES
ALICE ARM	M-40	55	27.10	129	35.36	81	6	18	19	207.3	X	X	PLES
ALICE ARM	M-40	55	27.10	129	35.36	81	6	19	20	208.1	X	X	PLES
ALICE ARM	M-43	55	27.10	129	35.89	81	6	16	17	202.1	X	X	PLES
ALICE ARM	M-43	55	27.10	129	35.89	81	6	17	20	178.9	X	X	PLES
ALICE ARM	M-50	55	27.10	129	37.12	81	5	30	5	286.6	X	X	PLES
ALICE ARM	N- 7	55	27.00	129	29.55	81	6	2	2	84.8	X	X	PLES
ALICE ARM	N- 8	55	27.00	129	29.73	81	5	23	18	107.0	X	X	PLES
ALICE ARM	N- 8	55	27.00	129	29.73	81	5	28	10	85.9	X	X	PLES
ALICE ARM	N- 8	55	27.00	129	29.73	81	5	29	18	78.1	X	X	PLES
ALICE ARM	N- 8	55	27.00	129	29.73	81	5	30	21	91.5	X	X	PLES
ALICE ARM	N- 8	55	27.00	129	29.73	81	5	31	7	116.6	X	X	PLES
ALICE ARM	N- 8	55	27.00	129	29.73	81	5	31	20	102.7	X	X	PLES
ALICE ARM	N- 8	55	27.00	129	29.73	81	6	2	5	103.8	X	X	PLES
ALICE ARM	N- 8	55	27.00	129	29.73	81	6	6	6	117.9	X	X	PLES
ALICE ARM	N- 8	55	27.00	129	29.73	81	6	6	21	85.8	X	X	PLES
ALICE ARM	N- 8	55	27.00	129	29.73	81	6	7	16	91.2	X	X	PLES
ALICE ARM	N- 8	55	27.00	129	29.73	81	6	8	17	111.1	X	X	PLES
ALICE ARM	N- 8	55	27.00	129	29.73	81	6	9	17	131.0	X	X	PLES
ALICE ARM	N- 8	55	27.00	129	29.73	81	6	10	17	111.5	X	X	PLES
ALICE ARM	N- 8	55	27.00	129	29.73	81	6	11	18	100.1	X	X	PLES
ALICE ARM	N- 8	55	27.00	129	29.73	81	6	12	17	112.3	X	X	PLES
ALICE ARM	N- 8	55	27.00	129	29.73	81	6	13	17	90.3	X	X	PLES
ALICE ARM	N- 8	55	27.00	129	29.73	81	6	14	23	93.0	X	X	PLES
ALICE ARM	N- 8	55	27.00	129	29.73	81	6	15	17	110.9	X	X	PLES
ALICE ARM	N- 8	55	27.00	129	29.73	81	6	17	17	107.6	X	X	PLES
ALICE ARM	N- 8	55	27.00	129	29.73	81	6	19	16	97.0	X	X	PLES
ALICE ARM	N- 8	55	27.00	129	29.73	81	6	20	16	112.1	X	X	PLES
ALICE ARM	N-10	55	27.00	129	30.08	81	5	25	4	166.3	X	X	PLES
ALICE ARM	N-10	55	27.00	129	30.08	81	5	29	21	179.1	X	X	PLES
ALICE ARM	N-10	55	27.00	129	30.08	81	5	30	21	128.2	X	X	PLES
ALICE ARM	N-11	55	27.00	129	30.26	81	5	23	17	147.4	X	X	PLES
ALICE ARM	N-11	55	27.00	129	30.26	81	6	6	11	167.8	X	X	PLES
ALICE ARM	N-11	55	27.00	129	30.26	81	6	7	19	177.3	X	X	PLES
ALICE ARM	N-11	55	27.00	129	30.26	81	6	8	18	171.4	X	X	PLES
ALICE ARM	N-11	55	27.00	129	30.26	81	6	10	20	177.9	X	X	PLES
ALICE ARM	N-14	55	27.00	129	30.78	81	5	28	11	98.7	X	X	PLES
ALICE ARM	N-14	55	27.00	129	30.78	81	5	31	5	152.2	X	X	PLES
ALICE ARM	N-14	55	27.00	129	30.78	81	6	2	4	122.1	X	X	PLES
ALICE ARM	N-14	55	27.00	129	30.78	81	6	6	7	132.3	X	X	PLES
ALICE ARM	N-14	55	27.00	129	30.78	81	6	7	17	130.4	X	X	PLES
ALICE ARM	N-14	55	27.00	129	30.78	81	6	8	20	105.0	X	X	PLES
ALICE ARM	N-14	55	27.00	129	30.78	81	6	10	21	133.4	X	X	PLES
ALICE ARM	N-14	55	27.00	129	30.78	81	6	11	19	123.9	X	X	PLES
ALICE ARM	N-14	55	27.00	129	30.78	81	6	12	18	142.5	X	X	PLES
ALICE ARM	N-14	55	27.00	129	30.78	81	6	13	18	133.4	X	X	PLES
ALICE ARM	N-14	55	27.00	129	30.78	81	6	14	22	164.8	X	X	PLES
ALICE ARM	N-14	55	27.00	129	30.78	81	6	15	17	127.4	X	X	PLES
ALICE ARM	N-14	55	27.00	129	30.78	81	6	16	22	130.6	X	X	PLES
ALICE ARM	N-14	55	27.00	129	30.78	81	6	17	18	143.5	X	X	PLES
ALICE ARM	N-14	55	27.00	129	30.78	81	6	19	17	117.5	X	X	PLES
ALICE ARM	N-14	55	27.00	129	30.78	81	6	20	17	125.6	X	X	PLES
ALICE ARM	N-14	55	27.00	129	30.78	81	6	21	17	143.7	X	X	PLES
ALICE ARM	N-24	55	27.00	129	32.54	81	6	18	22	116.3	X	X	PLES
ALICE ARM	N-24	55	27.00	129	32.54	81	6	19	22	131.4	X	X	PLES
ALICE ARM	N-24	55	27.00	129	32.54	81	6	20	18	138.4	X	X	PLES
ALICE ARM	N-24	55	27.00	129	32.54	81	6	21	18	133.8	X	X	PLES
ALICE ARM	N-25	55	27.00	129	32.72	81	6	16	20	97.8	X	X	PLES
ALICE ARM	N-25	55	27.00	129	32.72	81	6	17	22	144.8	X	X	PLES
ALICE ARM	N-32	55	27.00	129	33.95	81	6	18	22	205.7	X	X	PLES
ALICE ARM	N-32	55	27.00	129	33.95	81	6	19	21	207.3	X	X	PLES
ALICE ARM	N-32	55	27.00	129	33.95	81	6	20	22	205.3	X	X	PLES
ALICE ARM	N-32	55	27.00	129	33.95	81	6	21	20	206.7	X	X	PLES
ALICE ARM	N-39	55	27.00	129	35.18	81	6	16	18	191.4	X	X	PLES
ALICE ARM	O-12	55	26.90	129	30.43	81	5	31	7	151.1	X	X	PLES
ALICE ARM	O-13	55	26.90	129	30.61	81	6	6	7	184.2	X	X	PLES
ALICE ARM	O-13	55	26.90	129	30.61	81	6	7	17	200.2	X	X	PLES
ALICE ARM	O-13	55	26.90	129	30.61	81	6	8	20	181.6	X	X	PLES
ALICE ARM	O-13	55	26.90	129	30.61	81	6	9	17	189.5	X	X	PLES
ALICE ARM	O-13	55	26.90	129	30.61	81	6	10	20	199.1	X	X	PLES

ALICE ARM	0-13	55	26.90	129	30.61	81	6	11	18	191.8	X	X PLES
ALICE ARM	0-13	55	26.90	129	30.61	81	6	12	18	206.1	X	X PLES
ALICE ARM	0-13	55	26.90	129	30.61	81	6	13	18	197.5	X	X PLES
ALICE ARM	0-13	55	26.90	129	30.61	81	6	14	22	202.6	X	X PLES
ALICE ARM	0-13	55	26.90	129	30.61	81	6	15	17	203.5	X	X PLES
ALICE ARM	0-13	55	26.90	129	30.61	81	6	17	18	200.4	X	X PLES
ALICE ARM	0-13	55	26.90	129	30.61	81	6	19	17	186.4	X	X PLES
ALICE ARM	0-13	55	26.90	129	30.61	81	6	20	17	188.4	X	X PLES
ALICE ARM	0-13	55	26.90	129	30.61	81	6	21	17	208.3	X	X PLES
ALICE ARM	0-16	55	26.90	129	31.14	81	6	21	0	147.1	X	X PLES
ALICE ARM	0-18	55	26.90	129	31.49	81	6	21	0	118.6	X	X PLES
ALICE ARM	0-20	55	26.90	129	31.84	81	6	6	9	94.2	X	X PLES
ALICE ARM	0-20	55	26.90	129	31.84	81	6	16	21	56.2	X	X PLES
ALICE ARM	0-20	55	26.90	129	31.84	81	6	17	19	121.2	X	X PLES
ALICE ARM	0-20	55	26.90	129	31.84	81	6	18	23	129.7	X	X PLES
ALICE ARM	0-20	55	26.90	129	31.84	81	6	19	22	151.4	X	X PLES
ALICE ARM	0-20	55	26.90	129	31.84	81	6	20	18	109.4	X	X PLES
ALICE ARM	0-20	55	26.90	129	31.84	81	6	20	23	127.3	X	X PLES
ALICE ARM	0-20	55	26.90	129	31.84	81	6	21	18	118.9	X	X PLES
ALICE ARM	0-21	55	26.90	129	32.02	81	6	11	21	150.2	X	X PLES
ALICE ARM	0-21	55	26.90	129	32.02	81	6	13	21	152.5	X	X PLES
ALICE ARM	0-22	55	26.90	129	32.19	81	6	20	23	158.2	X	X PLES
ALICE ARM	0-24	55	26.90	129	32.54	81	6	20	23	167.3	X	X PLES
ALICE ARM	0-26	55	26.90	129	32.90	81	6	20	23	206.2	X	X PLES
ALICE ARM	0-28	55	26.90	129	33.25	81	6	20	23	205.6	X	X PLES
ALICE ARM	0-30	55	26.90	129	33.60	81	6	20	22	205.9	X	X PLES
ALICE ARM	0-32	55	26.90	129	33.95	81	6	13	22	159.0	X	X PLES
ALICE ARM	0-35	55	26.90	129	34.48	81	6	16	18	202.2	X	X PLES
ALICE ARM	0-35	55	26.90	129	34.48	81	6	17	21	203.3	X	X PLES
ALICE ARM	0-41	55	26.90	129	35.54	81	6	18	18	207.4	X	X PLES
ALICE ARM	0-41	55	26.90	129	35.54	81	6	19	20	209.4	X	X PLES
ALICE ARM	0-42	55	26.90	129	35.71	81	6	16	17	191.1	X	X PLES
ALICE ARM	0-42	55	26.90	129	35.71	81	6	17	20	198.5	X	X PLES
ALICE ARM	OUTFA	55	26.90	129	29.40	81	5	28	8	63.6	X	X PLES
ALICE ARM	OUTFA	55	26.90	129	29.40	81	5	28	8	70.3	X	X PLES
ALICE ARM	OUTFA	55	26.90	129	29.40	81	5	29	4	65.8	X	X PLES
ALICE ARM	OUTFA	55	26.90	129	29.40	81	5	29	7	70.7	X	X PLES
ALICE ARM	OUTFA	55	26.90	129	29.40	81	5	29	13	70.4	X	X PLES
ALICE ARM	OUTFA	55	26.90	129	29.40	81	5	29	16	72.3	X	X PLES
ALICE ARM	OUTFA	55	26.90	129	29.40	81	5	30	19	78.2	X	X PLES
ALICE ARM	OUTFA	55	26.90	129	29.40	81	5	31	16	77.6	X	X PLES
ALICE ARM	OUTFA	55	26.90	129	29.40	81	5	31	20	83.7	X	X PLES
ALICE ARM	OUTFA	55	26.90	129	29.40	81	6	3	3	78.6	X	X PLES
ALICE ARM	OUTFA	55	26.90	129	29.40	81	6	5	4	77.9	X	X PLES
ALICE ARM	P-12	55	26.80	129	30.43	81	5	25	5	148.9	X	X PLES
ALICE ARM	P-12	55	26.80	129	30.43	81	5	29	8	176.7	X	X PLES
ALICE ARM	P-12	55	26.80	129	30.43	81	6	6	8	185.1	X	X PLES
ALICE ARM	P-12	55	26.80	129	30.43	81	6	7	18	158.7	X	X PLES
ALICE ARM	P-12	55	26.80	129	30.43	81	6	8	21	167.2	X	X PLES
ALICE ARM	P-12	55	26.80	129	30.43	81	6	10	20	180.6	X	X PLES
ALICE ARM	P-12	55	26.80	129	30.43	81	6	12	17	166.8	X	X PLES
ALICE ARM	P-12	55	26.80	129	30.43	81	6	13	18	177.0	X	X PLES
ALICE ARM	P-12	55	26.80	129	30.43	81	6	14	22	182.9	X	X PLES
ALICE ARM	P-12	55	26.80	129	30.43	81	6	15	17	197.9	X	X PLES
ALICE ARM	P-12	55	26.80	129	30.43	81	6	17	18	147.6	X	X PLES
ALICE ARM	P-12	55	26.80	129	30.43	81	6	18	18	207.1	X	X PLES
ALICE ARM	P-12	55	26.80	129	30.43	81	6	19	17	173.0	X	X PLES
ALICE ARM	P-12	55	26.80	129	30.43	81	6	20	17	198.8	X	X PLES
ALICE ARM	P-12	55	26.80	129	30.43	81	6	21	17	159.6	X	X PLES
ALICE ARM	P-13	55	26.80	129	30.61	81	5	28	9	152.0	X	X PLES
ALICE ARM	P-14	55	26.80	129	30.78	81	5	30	22	231.4	X	X PLES
ALICE ARM	P-14	55	26.80	129	30.78	81	6	2	3	227.0	X	X PLES
ALICE ARM	P-14	55	26.80	129	30.78	81	6	6	8	222.3	X	X PLES
ALICE ARM	P-16	55	26.80	129	31.14	81	5	26	8	208.1	X	X PLES
ALICE ARM	P-25	55	26.80	129	32.72	81	6	18	21	197.0	X	X PLES
ALICE ARM	P-25	55	26.80	129	32.72	81	6	19	22	193.9	X	X PLES
ALICE ARM	P-25	55	26.80	129	32.72	81	6	20	18	204.3	X	X PLES
ALICE ARM	P-25	55	26.80	129	32.72	81	6	21	19	205.2	X	X PLES
ALICE ARM	P-30	55	26.80	129	33.60	81	6	16	19	201.6	X	X PLES
ALICE ARM	P-33	55	26.80	129	34.13	81	6	18	22	206.0	X	X PLES
ALICE ARM	P-33	55	26.80	129	34.13	81	6	19	21	208.3	X	X PLES
ALICE ARM	P-33	55	26.80	129	34.13	81	6	20	22	208.0	X	X PLES
ALICE ARM	P-33	55	26.80	129	34.13	81	6	21	20	206.9	X	X PLES
ALICE ARM	P-40	55	26.80	129	35.36	81	6	14	18	167.6	X	X PLES
ALICE ARM	P-40	55	26.80	129	35.36	81	6	15	19	182.4	X	X PLES
ALICE ARM	Q-11	55	26.70	129	30.26	81	6	6	8	73.9	X	X PLES
ALICE ARM	Q-15	55	26.70	129	30.96	81	5	30	6	244.7	X	X PLES
ALICE ARM	Q-16	55	26.70	129	31.14	81	5	31	6	216.4	X	X PLES
ALICE ARM	Q-16	55	26.70	129	31.14	81	6	7	18	244.8	X	X PLES
ALICE ARM	Q-16	55	26.70	129	31.14	81	6	8	21	231.4	X	X PLES
ALICE ARM	Q-16	55	26.70	129	31.14	81	6	9	17	199.9	X	X PLES
ALICE ARM	Q-16	55	26.70	129	31.14	81	6	10	21	198.5	X	X PLES
ALICE ARM	Q-16	55	26.70	129	31.14	81	6	11	20	203.8	X	X PLES

ALICE ARM	Q-16	55	26.70	129	31.14	81	6	12	18	206.3	X	X	PLES
ALICE ARM	Q-16	55	26.70	129	31.14	81	6	13	18	146.4	X	X	PLES
ALICE ARM	Q-16	55	26.70	129	31.14	81	6	15	17	203.2	X	X	PLES
ALICE ARM	Q-16	55	26.70	129	31.14	81	6	16	22	200.9	X	X	PLES
ALICE ARM	Q-16	55	26.70	129	31.14	81	6	17	18	200.0	X	X	PLES
ALICE ARM	Q-19	55	26.70	129	31.66	81	6	18	23	203.0	X	X	PLES
ALICE ARM	Q-19	55	26.70	129	31.66	81	6	19	22	206.8	X	X	PLES
ALICE ARM	Q-19	55	26.70	129	31.66	81	6	20	18	204.2	X	X	PLES
ALICE ARM	Q-19	55	26.70	129	31.66	81	6	21	18	208.1	X	X	PLES
ALICE ARM	Q-20	55	26.70	129	31.84	81	5	26	8	230.6	X	X	PLES
ALICE ARM	Q-20	55	26.70	129	31.84	81	6	6	9	249.1	X	X	PLES
ALICE ARM	Q-20	55	26.70	129	31.84	81	6	7	18	258.0	X	X	PLES
ALICE ARM	Q-20	55	26.70	129	31.84	81	6	8	21	196.4	X	X	PLES
ALICE ARM	Q-20	55	26.70	129	31.84	81	6	9	18	200.6	X	X	PLES
ALICE ARM	Q-20	55	26.70	129	31.84	81	6	10	22	200.3	X	X	PLES
ALICE ARM	Q-20	55	26.70	129	31.84	81	6	11	20	202.7	X	X	PLES
ALICE ARM	Q-20	55	26.70	129	31.84	81	6	12	19	206.1	X	X	PLES
ALICE ARM	Q-20	55	26.70	129	31.84	81	6	13	20	204.3	X	X	PLES
ALICE ARM	Q-20	55	26.70	129	31.84	81	6	14	19	203.3	X	X	PLES
ALICE ARM	Q-20	55	26.70	129	31.84	81	6	15	18	204.2	X	X	PLES
ALICE ARM	Q-20	55	26.70	129	31.84	81	6	16	21	200.4	X	X	PLES
ALICE ARM	Q-20	55	26.70	129	31.84	81	6	17	19	27.6	X	X	PLES
ALICE ARM	Q-23	55	26.70	129	32.37	81	6	9	20	199.5	X	X	PLES
ALICE ARM	Q-25	55	26.70	129	32.72	81	6	16	20	177.6	X	X	PLES
ALICE ARM	Q-25	55	26.70	129	32.72	81	6	17	22	205.6	X	X	PLES
ALICE ARM	Q-30	55	26.70	129	33.60	81	6	11	22	205.8	X	X	PLES
ALICE ARM	Q-30	55	26.70	129	33.60	81	6	13	2	202.9	X	X	PLES
ALICE ARM	Q-30	55	26.70	129	33.60	81	6	13	21	204.9	X	X	PLES
ALICE ARM	Q-35	55	26.70	129	34.48	81	6	16	18	195.0	X	X	PLES
ALICE ARM	Q-35	55	26.70	129	34.48	81	6	17	21	199.7	X	X	PLES
ALICE ARM	R-14	55	26.60	129	30.78	81	5	25	7	86.9	X	X	PLES
ALICE ARM	R-14	55	26.60	129	30.78	81	5	29	19	184.5	X	X	PLES
ALICE ARM	R-14	55	26.60	129	30.78	81	5	31	6	185.9	X	X	PLES
ALICE ARM	R-14	55	26.60	129	30.78	81	6	2	3	129.2	X	X	PLES
ALICE ARM	R-14	55	26.60	129	30.78	81	6	6	8	173.3	X	X	PLES
ALICE ARM	R-26	55	26.60	129	32.90	81	6	18	21	201.3	X	X	PLES
ALICE ARM	R-26	55	26.60	129	32.90	81	6	19	22	204.6	X	X	PLES
ALICE ARM	R-26	55	26.60	129	32.90	81	6	20	19	203.9	X	X	PLES
ALICE ARM	R-26	55	26.60	129	32.90	81	6	21	19	207.1	X	X	PLES
ALICE ARM	R-34	55	26.60	129	34.30	81	6	13	22	188.8	X	X	PLES
ALICE ARM	R-34	55	26.60	129	34.30	81	6	18	23	190.0	X	X	PLES
ALICE ARM	R-34	55	26.60	129	34.30	81	6	19	21	184.1	X	X	PLES
ALICE ARM	R-35	55	26.60	129	34.48	81	6	13	2	124.0	X	X	PLES
ALICE ARM	S-18	55	26.50	129	31.49	81	6	19	23	179.8	X	X	PLES
ALICE ARM	S-18	55	26.50	129	31.49	81	6	19	23	189.4	X	X	PLES
ALICE ARM	S-18	55	26.50	129	31.49	81	6	21	18	208.4	X	X	PLES
ALICE ARM	S-20	55	26.50	129	31.84	81	6	8	22	174.7	X	X	PLES
ALICE ARM	S-28	55	26.50	129	33.25	81	6	9	19	200.3	X	X	PLES
ALICE ARM	S-30	55	26.50	129	33.60	81	6	16	19	186.9	X	X	PLES
ALICE ARM	SEATE	55	27.10	129	29.90	81	5	24	8	79.0	X	X	PLES
ALICE ARM	SEATE	55	27.10	129	29.90	81	5	24	8	86.1	X	X	PLES
ALICE ARM	SEATE	55	27.10	129	29.90	81	5	24	8	103.8	X	X	PLES
ALICE ARM	T-20	55	26.40	129	31.84	81	6	11	21	146.9	X	X	PLES
ALICE ARM	T-20	55	26.40	129	31.84	81	6	12	19	167.6	X	X	PLES
ALICE ARM	T-20	55	26.40	129	31.84	81	6	13	20	164.6	X	X	PLES
ALICE ARM	T-20	55	26.40	129	31.84	81	6	14	18	164.0	X	X	PLES
ALICE ARM	T-20	55	26.40	129	31.84	81	6	15	18	136.2	X	X	PLES
ALICE ARM	T-20	55	26.40	129	31.84	81	6	16	22	104.3	X	X	PLES
ALICE ARM	T-25	55	26.40	129	32.72	81	6	8	23	149.3	X	X	PLES
ALICE ARM	T-25	55	26.40	129	32.72	81	6	9	18	201.8	X	X	PLES
ALICE ARM	T-25	55	26.40	129	32.72	81	6	10	22	184.1	X	X	PLES
ALICE ARM	T-25	55	26.40	129	32.72	81	6	11	21	180.4	X	X	PLES
ALICE ARM	T-25	55	26.40	129	32.72	81	6	13	1	168.2	X	X	PLES
ALICE ARM	T-25	55	26.40	129	32.72	81	6	13	21	126.7	X	X	PLES
ALICE ARM	T-25	55	26.40	129	32.72	81	6	14	18	164.0	X	X	PLES
ALICE ARM	T-25	55	26.40	129	32.72	81	6	15	18	175.0	X	X	PLES
ALICE ARM	T-25	55	26.40	129	32.72	81	6	16	20	180.6	X	X	PLES
ALICE ARM	T-25	55	26.40	129	32.72	81	6	17	21	141.1	X	X	PLES
ALICE ARM	T-27	55	26.40	129	33.07	81	6	18	21	163.2	X	X	PLES
ALICE ARM	T-27	55	26.40	129	33.07	81	6	19	21	191.1	X	X	PLES
ALICE ARM	T-27	55	26.40	129	33.07	81	6	20	19	169.0	X	X	PLES
ALICE ARM	T-27	55	26.40	129	33.07	81	6	21	19	161.9	X	X	PLES
ALICE ARM	T-30	55	26.40	129	33.60	81	6	11	21	180.0	X	X	PLES
ALICE ARM	T-30	55	26.40	129	33.60	81	6	13	1	168.7	X	X	PLES
ALICE ARM	T-30	55	26.40	129	33.60	81	6	15	18	201.9	X	X	PLES

BOTTLE/CTD DATA SET NUMBER: 81-0067
YEAR:1981 VESSEL/AGENCY: EPS

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
ALICE ARM	L-10	55	27.20	129	30.10	81	5	07	05			X		X	PLES		

BOTTLE/CTD DATA SET NUMBER: 81-0068
YEAR:1981 VESSEL/AGENCY: EPS

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
HASTINGS ARM	3.5					81	10	21	18			X		X	PLES		
ALICE ARM	G-5	55	27.70	129	29.33	81	10	21	02			X		X	PLES		
HASTINGS ARM	HA-1	55	24.90	129	43.08	81	10	21	16			X		X	PLES		
HASTINGS ARM	HA-3	55	27.00	129	43.90	81	10	21	17			X		X	PLES		
ALICE ARM	L-10	55	27.20	129	30.10	81	10	23	19			X		X	PLES		
ALICE ARM	N-8	55	27.00	129	29.38	81	10	20	16			X		X	PLES		
ALICE ARM	O-20	55	26.90	129	31.78	81	10	20	17			X		X	PLES		
ALICE ARM	O-32	55	26.90	129	33.98	81	10	20	20			X		X	PLES		
ALICE ARM	S-20	55	26.50	129	31.78	81	10	20	19			X		X	PLES		

BOTTLE/CTD DATA SET NUMBER: 82-0034
YEAR:1982 VESSEL/AGENCY: IOS,PARIZEAU

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
ALICE ARM	AA 1	55	24.75	129	40.75	82	1	28	0	83.4		X		X	GLDL		
ALICE ARM	AA 2	55	26.00	129	40.05	82	1	28	1	221.6		X		X	GLDL		
ALICE ARM	AA 3	55	27.15	129	37.05	82	1	28	1	378.7		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	82	1	28	4	249.1		X		X	GLDL		
ALICE ARM	AA 5	55	27.90	129	29.25	82	1	28	5	93.0		X		X	GLDL		
ALICE ARM	HA 1	55	24.90	129	43.10	82	1	28	11	55.6		X		X	GLDL		
ALICE ARM	HA 2	55	28.70	129	45.10	82	1	28	10	140.9		X		X	GLDL		
ALICE ARM	HA 3	55	32.50	129	47.10	82	1	28	8	136.3		X		X	GLDL		
ALICE ARM	HA 4	55	36.50	129	47.80	82	1	27	8	82.4		X		X	GLDL		
ALICE ARM	OB 1	55	3.10	130	0.80	82	1	28	19	61.5		X		X	GLDL		
ALICE ARM	OB 2	55	6.70	129	57.30	82	1	28	17	421.1		X		X	GLDL		
ALICE ARM	OB 3	55	10.00	129	53.00	82	1	28	15	469.8		X		X	GLDL		
ALICE ARM	OB 4	55	13.90	129	51.10	82	1	28	14	499.0		X		X	GLDL		
ALICE ARM	OB 5	55	17.50	129	47.90	82	1	28	13	498.1		X		X	GLDL		
ALICE ARM	OB 6	55	21.30	129	45.70	82	1	28	12	202.6		X		X	GLDL		
ALICE ARM	PI 1	54	40.60	123	28.20	82	1	29	1	374.0		X		X	GLDL		
ALICE ARM	PI 2	54	43.80	130	24.30	82	1	29	0	499.9		X		X	GLDL		
ALICE ARM	PI 3	54	46.70	130	19.70	82	1	28	23	487.2		X		X	GLDL		
ALICE ARM	PI 4	54	49.60	130	14.90	82	1	28	23	405.2		X		X	GLDL		
ALICE ARM	PI 5	54	52.85	130	10.90	82	1	28	22	401.7		X		X	GLDL		
ALICE ARM	PI 6	54	56.10	130	6.90	82	1	28	21	321.5		X		X	GLDL		
ALICE ARM	PI 7	54	59.30	130	2.80	82	1	28	20	207.7		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 82-0036
YEAR:1982 VESSEL/AGENCY: IOS,VECTOR

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
ALICE ARM	AA 1	55	24.75	129	40.75	82	6	21	23	72.9		X		X	GLDL		
ALICE ARM	AA 2	55	26.00	129	40.05	82	6	21	22	191.0		X		X	GLDL		
ALICE ARM	AA 3	55	27.15	129	37.05	82	6	21	21	190.9		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	82	6	21	20	192.8		X		X	GLDL		
ALICE ARM	AA 5	55	27.90	129	29.25	82	6	21	19	50.6		X		X	GLDL		
ALICE ARM	AA 5	55	27.90	129	29.25	82	6	21	19	78.6		X		X	GLDL		
ALICE ARM	AA SI	55	24.95	129	40.60	82	6	10	20	101.5		X		X	GLDL		
ALICE ARM	HA 1	55	24.90	129	43.10	82	6	13	2	170.0		X		X	GLDL		
ALICE ARM	HA 1	55	24.90	129	43.10	82	6	22	3	150.7		X		X	GLDL		
ALICE ARM	HA 2	55	28.30	129	44.60	82	6	13	1	292.1		X		X	GLDL		
ALICE ARM	HA 2	55	28.30	129	44.60	82	6	22	3	199.6		X		X	GLDL		
ALICE ARM	HA 3	55	32.50	129	47.10	82	6	13	1	283.4		X		X	GLDL		
ALICE ARM	HA 3	55	32.50	129	47.10	82	6	2	2	199.2		X		X	GLDL		
ALICE ARM	HA 4	55	36.50	129	47.80	82	6	13	0	150.1		X		X	GLDL		
ALICE ARM	HA 4	55	36.50	129	47.80	82	6	22	1	156.1		X		X	GLDL		
ALICE ARM	HA 5					82	6	13	0	87.4		X		X	GLDL		
ALICE ARM	OB 1	55	3.00	130	0.15	82	6	13	7	87.7		X		X	GLDL		
ALICE ARM	OB 1	55	3.00	130	0.15	82	6	22	9	39.3		X		X	GLDL		
ALICE ARM	OB 2	55	6.70	129	57.30	82	6	13	6	404.3		X		X	GLDL		
ALICE ARM	OB 2	55	6.70	129	57.30	82	6	22	8	192.5		X		X	GLDL		
ALICE ARM	OB 3	55	10.00	129	53.00	82	6	13	5	444.9		X		X	GLDL		
ALICE ARM	OB 3	55	10.00	129	53.00	82	6	22	7	193.8		X		X	GLDL		
ALICE ARM	OB 4	55	13.90	129	51.10	82	6	13	4	494.2		X		X	GLDL		
ALICE ARM	OB 4	55	13.90	129	51.10	82	6	22	6	199.1		X		X	GLDL		
ALICE ARM	OB 5	55	17.50	129	47.90	82	6	13	3	495.5		X		X	GLDL		
ALICE ARM	OB 5	55	17.50	129	47.90	82	6	22	6	199.9		X		X	GLDL		
ALICE ARM	OB 6	55	21.30	129	45.90	82	6	13	2	232.5		X		X	GLDL		
ALICE ARM	OB 6	55	21.30	129	45.90	82	6	22	4	199.1		X		X	GLDL		
ALICE ARM	OBM 1	55	3.20	130	0.40	82	6	9	15	39.6		X		X	GLDL		
ALICE ARM	OBM 1	55	3.20	130	0.40	82	6	9	17	120.4		X		X	GLDL		
ALICE ARM	OBM 2	55	5.05	129	59.10	82	6	9	16	199.8		X		X	GLDL		
ALICE ARM	OBS-G	55	4.80	129	59.40	82	6	9	15	202.7		X		X	GLDL		
ALICE ARM	PI 1	54	40.60	123	28.20	82	6	15	13	400.8		X		X	GLDL		
ALICE ARM	PI 1	54	40.60	123	28.20	82	6	22	14	199.5		X		X	GLDL		

ALICE ARM	PI 2	54	43.80	130	24.30	82	6	15	14	496.2		X		X	GLDL		
ALICE ARM	PI 2	54	43.80	130	24.30	82	6	22	13	200.0		X		X	GLDL		
ALICE ARM	PI 3	54	46.70	130	19.70	82	6	22	13	200.1		X		X	GLDL		
ALICE ARM	PI 4	54	49.60	130	14.90	82	6	22	12	200.1		X		X	GLDL		
ALICE ARM	PI 5	54	52.85	130	10.90	82	6	22	12	199.9		X		X	GLDL		
ALICE ARM	PI 6	54	56.10	130	6.90	82	6	22	11	195.8		X		X	GLDL		
ALICE ARM	PI 7	54	59.30	130	2.80	82	6	13	7	199.7		X		X	GLDL		
ALICE ARM	PI 7	54	59.30	130	2.80	82	6	22	10	193.2		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 82-0037
YEAR:1982 VESSEL/AGENCY: IOS

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO (M)	DEPTH (M)	MEAS C	S	T		HR	
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	1	150.0		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	1	149.1		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	2	148.6		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	2	148.7		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	3	143.8		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	3	144.6		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	4	146.0		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	4	145.7		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	5	145.0		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	5	149.9		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	6	145.0		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	6	146.1		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	7	145.8		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	7	145.9		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	8	145.8		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	8	146.9		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	9	147.0		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	10	145.6		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	10	145.5		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	11	148.2		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	11	148.6		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	12	149.7		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	12	147.5		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	13	147.5		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	13	147.7		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	14	147.9		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	14	150.1		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	15	145.1		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	15	144.7		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	16	144.9		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	16	144.6		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	17	145.5		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	17	145.5		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	18	143.9		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	18	145.1		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	19	146.2		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	19	146.5		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	20	146.9		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	20	145.7		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	21	146.0		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	21	146.1		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	22	145.5		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	22	145.1		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	23	148.5		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	5	23	148.2		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	6	0	148.0		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	6	0	148.9		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	6	1	148.0		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	6	1	148.9		X		X	GLDL		
ALICE ARM	3TS	55	20.85	129	46.25	82	9	6	2	150.0		X		X	GLDL		
ALICE ARM	AA 1	55	24.75	129	40.75	82	8	30	19	65.9		X		X	GLDL		
ALICE ARM	AA 1	55	24.75	129	40.75	82	9	4	19	69.5		X		X	GLDL		
ALICE ARM	AA 2	55	26.00	129	40.05	82	8	30	19	197.7		X		X	GLDL		
ALICE ARM	AA 2	55	26.00	129	40.05	82	9	4	20	189.6		X		X	GLDL		
ALICE ARM	AA 3	55	27.15	129	37.05	82	8	30	18	370.6		X		X	GLDL		
ALICE ARM	AA 3	55	27.15	129	37.05	82	9	4	20	368.8		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	82	8	30	17	265.0		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	82	9	4	21	257.1		X		X	GLDL		
ALICE ARM	AA 5	55	27.90	129	29.25	82	8	30	16	97.2		X		X	GLDL		
ALICE ARM	AA 5	55	27.90	129	29.25	82	9	4	22	86.9		X		X	GLDL		

ALICE ARM	AATS	55	27.80	129	29.30	82	9	1	15	76.6	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	1	15	77.1	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	1	16	77.6	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	1	16	77.8	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	1	17	77.5	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	1	17	77.6	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	1	18	77.9	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	1	18	77.8	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	1	19	77.6	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	1	19	77.6	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	1	20	78.6	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	1	20	78.0	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	1	21	77.5	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	1	21	79.8	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	1	22	79.9	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	1	22	79.5	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	1	23	79.5	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	1	23	77.6	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	0	79.8	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	0	78.1	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	1	79.2	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	1	80.1	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	2	78.6	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	2	80.0	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	3	78.0	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	3	77.9	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	4	78.2	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	4	77.9	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	5	77.8	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	5	78.7	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	6	78.5	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	6	77.8	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	7	78.1	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	7	78.7	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	8	78.6	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	8	78.5	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	9	78.9	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	9	79.8	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	10	80.2	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	10	80.5	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	11	79.9	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	11	78.8	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	12	79.9	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	12	80.0	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	13	80.0	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	13	79.8	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	14	79.5	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	14	80.0	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	15	77.8	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	15	77.9	X	X	GLDL
ALICE ARM	AATS	55	27.80	129	29.30	82	9	2	16	78.1	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	2	18	97.5	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	2	18	97.2	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	2	19	96.6	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	2	19	97.7	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	2	20	97.9	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	2	20	97.7	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	2	21	97.5	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	2	21	97.0	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	2	22	97.0	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	2	22	99.0	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	2	23	99.0	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	2	23	98.7	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	0	99.6	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	0	99.6	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	1	99.1	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	1	99.5	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	2	99.1	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	2	98.7	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	3	98.6	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	3	96.0	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	4	97.1	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	4	96.6	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	5	97.7	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	5	97.6	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	6	96.5	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	6	96.7	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	7	95.9	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	7	96.0	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	8	97.7	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	8	97.5	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	9	98.8	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	9	98.8	X	X	GLDL

ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	10	99.6	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	10	99.7	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	11	99.7	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	11	99.1	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	12	99.8	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	12	99.2	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	13	99.9	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	13	99.6	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	14	99.8	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	14	99.5	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	15	100.5	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	15	96.8	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	16	96.5	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	16	97.0	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	17	96.5	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	17	97.1	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	18	96.9	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	18	97.7	X	X	GLDL
ALICE ARM	ARTS	55	25.95	129	39.72	82	9	3	19	97.5	X	X	GLDL
ALICE ARM	C 3	55	28.10	129	28.85	82	8	30	14	60.5	X	X	GLDL
ALICE ARM	C 6	55	28.10	129	29.33	82	8	30	13	76.9	X	X	GLDL
ALICE ARM	E 3	55	27.90	129	28.81	82	8	30	13	76.8	X	X	GLDL
ALICE ARM	E 5	55	27.90	129	29.18	82	8	30	13	77.1	X	X	GLDL
ALICE ARM	E 7	55	27.90	129	29.53	82	8	30	13	77.6	X	X	GLDL
ALICE ARM	G 5	55	27.20	129	29.20	82	8	30	13	65.9	X	X	GLDL
ALICE ARM	G 6	55	27.70	129	29.33	82	8	30	12	77.7	X	X	GLDL
ALICE ARM	G 8	55	27.70	129	29.73	82	8	30	12	59.9	X	X	GLDL
ALICE ARM	HA 1	55	24.90	129	43.10	82	8	31	0	143.8	X	X	GLDL
ALICE ARM	HA 1	55	24.90	129	43.10	82	9	4	14	149.9	X	X	GLDL
ALICE ARM	HA 2	55	28.30	129	44.60	82	8	30	23	275.1	X	X	GLDL
ALICE ARM	HA 2	55	28.30	129	44.60	82	9	4	15	286.0	X	X	GLDL
ALICE ARM	HA 3	55	32.50	129	47.10	82	8	30	22	263.2	X	X	GLDL
ALICE ARM	HA 3	55	32.50	129	47.10	82	9	4	16	269.7	X	X	GLDL
ALICE ARM	HA 4	55	36.50	129	47.80	82	8	30	21	144.7	X	X	GLDL
ALICE ARM	HA 4	55	36.50	129	47.80	82	9	4	17	148.1	X	X	GLDL
ALICE ARM	I 6	55	27.50	129	29.33	82	8	30	11	77.9	X	X	GLDL
ALICE ARM	I 8	55	27.50	129	29.73	82	8	30	12	77.7	X	X	GLDL
ALICE ARM	K 40	55	27.30	129	35.36	82	8	30	5	185.7	X	X	GLDL
ALICE ARM	K 6	55	27.30	129	29.33	82	8	30	11	77.1	X	X	GLDL
ALICE ARM	K 8	55	27.30	129	29.73	82	8	30	11	77.1	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	82	8	30	12	96.7	X	X	GLDL
ALICE ARM	L 56	55	27.20	129	38.18	82	8	30	3	290.9	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	3	83.0	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	3	81.1	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	4	81.1	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	4	81.5	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	5	81.6	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	5	81.5	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	6	80.7	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	6	81.9	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	7	79.5	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	7	77.8	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	8	77.9	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	8	78.7	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	9	79.7	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	9	78.5	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	10	78.7	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	10	79.7	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	11	79.9	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	11	79.1	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	12	78.5	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	12	79.6	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	13	79.7	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	13	80.0	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	14	79.5	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	14	79.8	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	15	81.7	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	15	81.9	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	16	82.0	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	16	81.5	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	17	82.1	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	17	81.7	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	18	82.1	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	18	80.6	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	19	81.8	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	19	80.5	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	20	80.6	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	20	80.5	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	21	79.6	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	21	79.9	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	22	80.1	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	22	80.0	X	X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	23	78.9	X	X	GLDL

ALICE ARM	LPTS	55	24.75	129	40.75	82	9	6	23	79.0		X		X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	7	0	78.6		X		X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	7	0	78.7		X		X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	7	1	78.5		X		X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	7	1	78.9		X		X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	7	2	79.7		X		X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	7	2	79.9		X		X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	7	3	81.8		X		X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	7	3	82.1		X		X	GLDL
ALICE ARM	LPTS	55	24.75	129	40.75	82	9	7	4	81.5		X		X	GLDL
ALICE ARM	M 12	55	27.10	129	30.43	82	8	30	10	130.6		X		X	GLDL
ALICE ARM	M 28	55	27.10	129	33.25	82	8	30	5	131.6		X		X	GLDL
ALICE ARM	M 40	55	27.10	129	35.36	82	8	30	4	357.9		X		X	GLDL
ALICE ARM	M 9	55	27.10	129	29.90	82	8	30	12	131.6		X		X	GLDL
ALICE ARM	N 11	55	27.00	129	30.26	82	8	30	10	161.9		X		X	GLDL
ALICE ARM	N 14	55	27.00	129	30.78	82	8	30	10	117.7		X		X	GLDL
ALICE ARM	N 55	55	27.00	129	38.00	82	8	30	3	343.6		X		X	GLDL
ALICE ARM	N 8	55	27.00	129	29.73	82	8	30	10	107.0		X		X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	82	8	30	9	196.0		X		X	GLDL
ALICE ARM	O 16	55	26.90	129	31.14	82	8	30	8	127.6		X		X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	82	8	30	8	135.7		X		X	GLDL
ALICE ARM	OB 1	55	3.00	130	0.15	82	8	31	7	47.6		X		X	GLDL
ALICE ARM	OB 1	55	3.00	130	0.15	82	9	4	8	86.1		X		X	GLDL
ALICE ARM	OB 2	55	6.70	129	57.30	82	8	31	5	397.9		X		X	GLDL
ALICE ARM	OB 2	55	6.70	129	57.30	82	9	4	9	409.9		X		X	GLDL
ALICE ARM	OB 3	55	10.00	129	53.00	82	8	31	4	467.7		X		X	GLDL
ALICE ARM	OB 3	55	10.00	129	53.00	82	9	4	10	458.9		X		X	GLDL
ALICE ARM	OB 4	55	13.90	129	51.10	82	8	31	3	493.8		X		X	GLDL
ALICE ARM	OB 4	55	13.90	129	51.10	82	9	4	11	505.0		X		X	GLDL
ALICE ARM	OB 5	55	17.50	129	47.90	82	8	31	2	517.7		X		X	GLDL
ALICE ARM	OB 5	55	17.50	129	47.90	82	9	4	12	497.0		X		X	GLDL
ALICE ARM	OB 6	55	21.30	129	45.90	82	8	31	1	209.8		X		X	GLDL
ALICE ARM	OB 6	55	21.30	129	45.90	82	9	4	13	207.1		X		X	GLDL
ALICE ARM	P 12	55	26.80	129	30.43	82	8	30	9	157.9		X		X	GLDL
ALICE ARM	P 29	55	26.80	129	33.42	82	8	30	6	326.0		X		X	GLDL
ALICE ARM	P 40	55	26.80	129	35.36	82	8	30	4	345.0		X		X	GLDL
ALICE ARM	P 54	55	26.80	129	37.82	82	8	30	2	72.9		X		X	GLDL
ALICE ARM	PI 1	54	40.60	123	28.20	82	8	31	13	393.2		X		X	GLDL
ALICE ARM	PI 1	54	40.60	123	28.20	82	9	4	1	422.0		X		X	GLDL
ALICE ARM	PI 2	54	43.80	130	24.30	82	8	31	11	492.6		X		X	GLDL
ALICE ARM	PI 2	54	43.80	130	24.30	82	9	4	2	493.0		X		X	GLDL
ALICE ARM	PI 3	54	46.70	130	19.70	82	8	31	10	442.6		X		X	GLDL
ALICE ARM	PI 3	54	46.70	130	19.70	82	9	4	4	468.2		X		X	GLDL
ALICE ARM	PI 4	54	49.60	130	14.90	82	8	31	10	431.9		X		X	GLDL
ALICE ARM	PI 4	54	49.60	130	14.90	82	9	4	5	423.8		X		X	GLDL
ALICE ARM	PI 5	54	52.85	130	10.90	82	8	31	9	388.5		X		X	GLDL
ALICE ARM	PI 5	54	52.85	130	10.90	82	9	4	5	402.5		X		X	GLDL
ALICE ARM	PI 6	54	56.10	130	6.90	82	8	31	8	305.0		X		X	GLDL
ALICE ARM	PI 6	54	56.10	130	6.90	82	9	4	7	319.1		X		X	GLDL
ALICE ARM	PI 7	54	59.30	130	2.80	82	8	31	7	195.0		X		X	GLDL
ALICE ARM	PI 7	54	59.30	130	2.80	82	9	4	8	210.9		X		X	GLDL
ALICE ARM	Q 16	55	26.70	129	31.14	82	8	30	8	247.5		X		X	GLDL
ALICE ARM	Q 20	55	26.70	129	31.84	82	8	30	7	253.0		X		X	GLDL
ALICE ARM	S 16	55	26.50	129	31.14	82	8	30	9	146.5		X		X	GLDL
ALICE ARM	S 20	55	26.50	129	31.84	82	8	30	7	280.6		X		X	GLDL
ALICE ARM	S 30	55	26.50	129	33.60	82	8	30	6	291.1		X		X	GLDL
ALICE ARM	U 67	55	26.30	129	40.11	82	8	30	2	211.5		X		X	GLDL
ALICE ARM	V 66	55	26.20	129	39.94	82	8	30	1	186.0		X		X	GLDL
ALICE ARM	W 65	55	26.10	129	39.76	82	8	30	1	122.8		X		X	GLDL

BOTTLE/CTD DATA SET NUMBER: 82-0038
YEAR:1982 VESSEL/AGENCY: IOS,VECTOR

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT NO HR
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T		
ALICE ARM	AA 1	55	24.75	129	40.75	82	11	26	8	76.5		X		X	GLDL	
ALICE ARM	AA 1	55	24.75	129	40.75	82	11	30	7	86.5		X		X	GLDL	
ALICE ARM	AA 2	55	26.00	129	40.05	82	11	26	8	224.8		X		X	GLDL	
ALICE ARM	AA 2	55	26.00	129	40.05	82	11	30	7	234.4		X		X	GLDL	
ALICE ARM	AA 3	55	27.15	129	37.05	82	11	26	8	297.2		X		X	GLDL	
ALICE ARM	AA 3	55	27.15	129	37.05	82	11	30	6	383.6		X		X	GLDL	
ALICE ARM	AA 4	55	26.69	129	31.80	82	11	26	9	266.6		X		X	GLDL	
ALICE ARM	AA 4	55	26.69	129	31.80	82	11	30	5	234.5		X		X	GLDL	
ALICE ARM	AA 5	55	27.90	129	29.25	82	11	26	10	89.6		X		X	GLDL	

ALICE ARM	AA 5	55	27.90	129	29.25	82	11	30	4	94.1	X	X	GLDL
ALICE ARM	C 3	55	28.10	129	28.85	82	11	30	4	90.8	X	X	GLDL
ALICE ARM	C 6	55	28.10	129	29.33	82	11	30	4	93.6	X	X	GLDL
ALICE ARM	E 3	55	27.90	129	28.81	82	11	30	3	91.5	X	X	GLDL
ALICE ARM	E 5	55	27.90	129	29.18	82	11	30	4	93.2	X	X	GLDL
ALICE ARM	E 7	55	27.90	129	29.53	82	11	30	4	98.1	X	X	GLDL
ALICE ARM	G 4	55	27.70	129	29.00	82	11	30	3	90.0	X	X	GLDL
ALICE ARM	G 6	55	27.70	129	29.33	82	11	30	3	88.6	X	X	GLDL
ALICE ARM	G 8	55	27.70	129	29.73	82	11	30	3	118.0	X	X	GLDL
ALICE ARM	HA 1	55	24.90	129	43.10	82	11	26	3	156.1	X	X	GLDL
ALICE ARM	HA 1	55	24.90	129	43.10	82	11	30	11	154.1	X	X	GLDL
ALICE ARM	HA 2	55	28.30	129	44.60	82	11	26	4	283.8	X	X	GLDL
ALICE ARM	HA 2	55	28.30	129	44.60	82	11	29	16	165.6	X	X	GLDL
ALICE ARM	HA 2	55	28.30	129	44.60	82	11	30	11	287.1	X	X	GLDL
ALICE ARM	HA 3	55	32.50	129	47.10	82	11	26	5	273.1	X	X	GLDL
ALICE ARM	HA 3	55	32.50	129	47.10	82	11	30	10	290.9	X	X	GLDL
ALICE ARM	HA 4	55	36.50	129	47.80	82	11	26	6	172.7	X	X	GLDL
ALICE ARM	HA 4	55	36.50	129	47.80	82	11	30	9	169.0	X	X	GLDL
ALICE ARM	I 6	55	27.50	129	29.33	82	11	30	2	88.5	X	X	GLDL
ALICE ARM	I 8	55	27.50	129	29.73	82	11	30	3	94.0	X	X	GLDL
ALICE ARM	K 40	55	27.30	129	35.36	82	11	29	21	215.5	X	X	GLDL
ALICE ARM	K 6	55	27.30	129	29.33	82	11	30	2	89.8	X	X	GLDL
ALICE ARM	K 8	55	27.30	129	29.73	82	11	30	2	92.1	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	82	11	30	2	147.0	X	X	GLDL
ALICE ARM	M 12	55	27.10	129	30.43	82	11	30	1	172.9	X	X	GLDL
ALICE ARM	M 40	55	27.10	129	35.36	82	11	29	21	377.8	X	X	GLDL
ALICE ARM	M 9	55	27.10	129	29.90	82	11	30	2	144.0	X	X	GLDL
ALICE ARM	N 11	55	27.00	129	30.26	82	11	30	1	156.7	X	X	GLDL
ALICE ARM	N 14	55	27.00	129	30.78	82	11	30	1	94.6	X	X	GLDL
ALICE ARM	N 8	55	27.00	129	29.73	82	11	30	1	74.8	X	X	GLDL
ALICE ARM	O 10	55	26.90	129	30.08	82	11	30	1	75.9	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	82	11	30	0	204.0	X	X	GLDL
ALICE ARM	O 16	55	26.90	129	31.14	82	11	29	23	141.5	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	82	11	29	23	54.7	X	X	GLDL
ALICE ARM	OB 1	55	3.00	130	0.15	82	11	25	22	31.5	X	X	GLDL
ALICE ARM	OB 1	55	3.00	130	0.15	82	11	30	17	62.3	X	X	GLDL
ALICE ARM	OB 2	55	6.70	129	57.30	82	11	25	23	386.1	X	X	GLDL
ALICE ARM	OB 2	55	6.70	129	57.30	82	11	30	16	420.2	X	X	GLDL
ALICE ARM	OB 3	55	10.00	129	53.00	82	11	26	0	473.3	X	X	GLDL
ALICE ARM	OB 3	55	10.00	129	53.00	82	11	30	15	468.5	X	X	GLDL
ALICE ARM	OB 4	55	13.90	129	51.10	82	11	26	1	496.4	X	X	GLDL
ALICE ARM	OB 4	55	13.90	129	51.10	82	11	30	14	493.5	X	X	GLDL
ALICE ARM	OB 5	55	17.50	129	47.90	82	11	26	2	497.5	X	X	GLDL
ALICE ARM	OB 5	55	17.50	129	47.90	82	11	29	18	492.7	X	X	GLDL
ALICE ARM	OB 5	55	17.50	129	47.90	82	11	30	13	424.9	X	X	GLDL
ALICE ARM	OB 6	55	21.30	129	45.90	82	11	26	2	230.4	X	X	GLDL
ALICE ARM	OB 6	55	21.30	129	45.90	82	11	30	12	213.2	X	X	GLDL
ALICE ARM	P 12	55	26.80	129	30.43	82	11	30	0	201.5	X	X	GLDL
ALICE ARM	P 40	55	26.80	129	35.36	82	11	29	22	271.1	X	X	GLDL
ALICE ARM	PI 1	54	40.60	123	28.20	82	11	25	16	470.5	X	X	GLDL
ALICE ARM	PI 1	54	40.60	123	28.20	82	11	30	23	458.2	X	X	GLDL
ALICE ARM	PI 2	54	43.80	130	24.30	82	11	25	17	498.8	X	X	GLDL
ALICE ARM	PI 2	54	43.80	130	24.30	82	11	30	22	495.3	X	X	GLDL
ALICE ARM	PI 3	54	46.70	130	19.70	82	11	25	18	490.1	X	X	GLDL
ALICE ARM	PI 3	54	46.70	130	19.70	82	11	30	21	480.3	X	X	GLDL
ALICE ARM	PI 4	54	49.60	130	14.90	82	11	25	19	451.5	X	X	GLDL
ALICE ARM	PI 4	54	49.60	130	14.90	82	11	30	20	448.4	X	X	GLDL
ALICE ARM	PI 5	54	52.85	130	10.90	82	11	25	20	413.1	X	X	GLDL
ALICE ARM	PI 5	54	52.85	130	10.90	82	11	30	19	425.6	X	X	GLDL
ALICE ARM	PI 6	54	56.10	130	6.90	82	11	25	21	326.5	X	X	GLDL
ALICE ARM	PI 6	54	56.10	130	6.90	82	11	30	18	345.4	X	X	GLDL
ALICE ARM	PI 7	54	59.30	130	2.80	82	11	25	22	226.2	X	X	GLDL
ALICE ARM	PI 7	54	59.30	130	2.80	82	11	30	18	219.2	X	X	GLDL
ALICE ARM	Q 16	55	26.70	129	31.14	82	11	29	23	237.8	X	X	GLDL
ALICE ARM	Q 20	55	26.70	129	31.84	82	11	29	22	250.0	X	X	GLDL
ALICE ARM	S 16	55	26.50	129	31.14	82	11	30	0	144.9	X	X	GLDL
ALICE ARM	S 20	55	26.50	129	31.84	82	11	29	22	178.5	X	X	GLDL
ALICE ARM	U 67	55	26.30	129	40.11	82	11	29	20	229.8	X	X	GLDL
ALICE ARM	V 66	55	26.20	129	39.94	82	11	29	20	154.6	X	X	GLDL
ALICE ARM	W 65	55	26.10	129	39.76	82	11	29	20	164.9	X	X	GLDL

BOTTLE/CTD DATA SET NUMBER: 82-0039A
YEAR:1982 VESSEL/AGENCY: IOS

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
ALICE ARM	IC	55	28.80	129	27.40	82	3	27	0				X	X	BOTT		
ALICE ARM	KR	55	28.90	129	28.90	82	3	27	0				X	X	BOTT		
ALICE ARM	LC	55	27.40	129	28.90	82	3	27	2				X	X	BOTT		
ALICE ARM	AA 1	55	24.75	129	40.75	82	3	27	7	75.	86.		X	X	BOTT		
ALICE ARM	AA 2	55	26.00	129	40.05	82	3	27	5	250.	258.		X	X	BOTT		
ALICE ARM	AA 3	55	27.15	129	37.05	82	3	26	7	350.	386.		X	X	BOTT		
ALICE ARM	AA 3	55	27.15	129	37.05	82	4	5	2	300.	386.		X	X	BOTT		
ALICE ARM	AA 4	55	26.69	129	31.80	82	4	5	1	250.	278.		X	X	BOTT		
ALICE ARM	AA 4	55	26.69	129	32.00	82	3	26	8	270.	278.		X	X	BOTT		
ALICE ARM	AA 5	55	27.90	129	29.25	82	3	28	0	90.	104.		X	X	BOTT		
ALICE ARM	GB 1	55	25.40	129	29.25	82	3	27	0	100.	115.		X	X	BOTT		
ALICE ARM	HA 1	55	24.90	129	43.10	82	4	5	7	150.	168.		X	X	BOTT		
ALICE ARM	HA 3	55	32.50	129	47.10	82	3	28	2	250.	282.		X	X	BOTT		
ALICE ARM	HA 3	55	32.50	129	47.10	82	4	5	5	250.	282.		X	X	BOTT		
ALICE ARM	OB 2	55	6.70	129	57.30	82	3	29	1	400.	430.		X	X	BOTT		
ALICE ARM	OB 2	55	6.70	129	57.30	82	4	5	11	400.	430.		X	X	BOTT		
ALICE ARM	OB 4	55	13.90	129	51.10	82	3	25	7	500.	503.		X	X	BOTT		
ALICE ARM	OB 4	55	13.90	129	51.10	82	4	5	9	300.	503.		X	X	BOTT		
ALICE ARM	OB 6	55	21.30	129	45.70	82	3	28	6	200.	242.		X	X	BOTT		
ALICE ARM	OB 6	55	21.30	129	45.90	82	4	5	8	150.	242.		X	X	BOTT		
ALICE ARM	PI 2	54	43.80	130	24.30	82	3	29	5	530.	540.		X	X	BOTT		
ALICE ARM	PI 2	54	43.80	130	24.30	82	4	5	17	500.	540.		X	X	BOTT		
ALICE ARM	PI 6	54	56.10	130	6.90	82	4	5	14	300.	339.		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 82-0039B
YEAR:1982 VESSEL/AGENCY: IOS

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
ALICE ARM	AA 1	55	24.75	129	40.75	82	4	4	11	76.4		X		X	GLDL		
ALICE ARM	AA 2	55	26.00	129	40.05	82	4	4	11	225.5		X		X	GLDL		
ALICE ARM	AA 3	55	27.15	129	37.05	82	4	4	10	383.5		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	82	4	4	09	286.1		X		X	GLDL		
ALICE ARM	AA 5	55	27.90	129	29.25	82	4	4	08	98.4		X		X	GLDL		
ALICE ARM	HA 1	55	24.90	129	43.10	82	4	4	15	161.0		X		X	GLDL		
ALICE ARM	HA 2	55	28.30	129	44.60	82	4	4	14	272.1		X		X	GLDL		
ALICE ARM	HA 3	55	32.50	129	47.10	82	4	4	13	273.3		X		X	GLDL		
ALICE ARM	HA 4	55	36.50	129	47.80	82	4	4	13	163.7		X		X	GLDL		
ALICE ARM	OB 1	55	3.00	130	0.15	82	4	4	20	56.2		X		X	GLDL		
ALICE ARM	OB 2	55	6.70	129	57.30	82	4	4	19	401.8		X		X	GLDL		
ALICE ARM	OB 3	55	10.00	129	53.00	82	4	4	19	446.9		X		X	GLDL		
ALICE ARM	OB 4	55	13.90	129	51.10	82	4	4	17	495.3		X		X	GLDL		
ALICE ARM	OB 5	55	17.50	129	47.90	82	4	4	17	497.0		X		X	GLDL		
ALICE ARM	OB 6	55	21.30	129	45.90	82	4	4	16	149.8		X		X	GLDL		
ALICE ARM	PI 1	54	40.60	123	28.20	82	4	5	02	493.3		X		X	GLDL		
ALICE ARM	PI 2	54	43.80	130	24.30	82	4	5	01	489.2		X		X	GLDL		
ALICE ARM	PI 3	54	46.70	130	19.70	82	4	5	00	481.3		X		X	GLDL		
ALICE ARM	PI 4	54	49.60	130	14.90	82	4	4	23	435.1		X		X	GLDL		
ALICE ARM	PI 5	54	52.85	130	10.90	82	4	4	23	416.7		X		X	GLDL		
ALICE ARM	PI 6	54	56.10	130	6.90	82	4	4	22	338.3		X		X	GLDL		
ALICE ARM	PI 7	54	59.30	130	2.80	82	4	4	21	216.3		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 82-0040
YEAR:1982 VESSEL/AGENCY: IOS

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO (M)	DEPTH (M)	MEAS C	S	T		HR	
ALICE ARM	AA-1	55	24.75	129	40.75	82	9	27	18	75.	86.		X	X	BOTT		
ALICE ARM	AA-1	55	24.75	129	40.75	82	9	27	19	75.	86.		X	X	BOTT		
ALICE ARM	AA-2	55	26.00	129	40.05	82	9	27	16	150.	258.		X	X	BOTT		
ALICE ARM	AA-2	55	26.00	129	40.05	82	9	27	17	150.	258.		X	X	BOTT		
ALICE ARM	AA-3	55	27.15	129	37.05	82	9	27	00	300.	386.		X	X	BOTT		
ALICE ARM	AA-3	55	27.15	129	37.05	82	9	27	02	300.	386.		X	X	BOTT		
ALICE ARM	AA-4	55	26.69	129	31.80	82	9	26	18	250.	278.		X	X	BOTT		
ALICE ARM	AA-4	55	26.69	129	31.80	82	9	26	21	250.	278.		X	X	BOTT		
ALICE ARM	AA-5	55	27.90	129	29.25	82	9	26	16	75.	104.		X	X	BOTT		
ALICE ARM	AA-5	55	27.90	129	29.25	82	9	26	17	75.	104.		X	X	BOTT		
ALICE ARM	GB-1	55	25.40	129	25.25	82	9	28	16	100.	115.		X	X	BOTT		
ALICE ARM	GB-1	55	25.40	129	25.25	82	9	28	16	100.	115.		X	X	BOTT		
ALICE ARM	HA-3	55	32.50	129	47.10	82	9	28	00	250.	282.		X	X	BOTT		
ALICE ARM	HA-3	55	32.50	129	47.10	82	9	28	01	250.	282.		X	X	BOTT		
ALICE ARM	OB-2	55	06.70	129	57.30	82	9	29	02	400.	430.		X	X	BOTT		
ALICE ARM	OB-4	55	13.90	129	51.10	82	9	28	21	500.	503.		X	X	BOTT		
ALICE ARM	OB-4	55	13.90	129	51.10	82	9	28	22	500.	503.		X	X	BOTT		
ALICE ARM	OB-6	55	21.30	129	45.90	82	9	28	18	200.	242.		X	X	BOTT		
ALICE ARM	PI-2	54	43.80	130	24.30	82	9	29	05	500.	540.		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 82-0045
YEAR:1982 VESSEL/AGENCY: EPS

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO (M)	DEPTH (M)	MEAS C	S	T		HR	
PORPOISE HBR	B10	54	13.19	130	17.60	82	04	29	22	20		X		X	PLES		
PORPOISE HBR	O-1	54	13.80	130	18.04	82	04	29	23	20		X		X	PLES		
PORPOISE HBR	O-2	54	13.91	130	18.07	82	04	29	23	10		X		X	PLES		
PORPOISE HBR	O-4	54	13.68	130	17.91	82	04	29	22	20		X		X	PLES		
PORPOISE HBR	O-5	54	13.47	130	17.80	82	04	29	22	15		X		X	PLES		
PORPOISE HBR	P12	54	13.22	130	17.63	82	04	29	22	20		X		X	PLES		
PORPOISE HBR	P18	54	14.25	130	18.40	82	04	29	23	15		X		X	PLES		
PORPOISE HBR	PH2	54	12.51	130	17.72	82	04	29	21	25		X		X	PLES		

BOTTLE/CTD DATA SET NUMBER: 82-0051
YEAR:1982 VESSEL/AGENCY: IOS,PARIZEAU

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO (M)	DEPTH (M)	MEAS C	S	T		HR	
QUEEN CH.SOUND	GB01	51	28.5	129	2.0	82	5	26	20			X		X	GLDL		
QUEEN CH.SOUND	GB02	51	25.5	129	0.0	82	5	26	21			X		X	GLDL		
QUEEN CH.SOUND	GB03	51	22.4	128	57.4	82	5	26	21			X		X	GLDL		
QUEEN CH.SOUND	GB04	51	20.0	128	54.5	82	5	26	22			X		X	GLDL		
QUEEN CH.SOUND	GB05	51	18.5	128	53.3	82	5	26	22			X		X	GLDL		
QUEEN CH.SOUND	GB06	51	16.7	128	51.8	82	5	26	23			X		X	GLDL		
QUEEN CH.SOUND	GB07	51	13.0	128	50.4	82	5	26	23			X		X	GLDL		
QUEEN CH.SOUND	GB08	51	10.2	128	49.0	82	5	27	0			X		X	GLDL		
QUEEN CH.SOUND	GB09	51	7.4	128	46.1	82	5	27	0			X		X	GLDL		
QUEEN CH.SOUND	GB10	51	7.0	128	42.5	82	5	27	1			X		X	GLDL		
QUEEN CH.SOUND	GB11	51	6.3	128	38.0	82	5	27	1			X		X	GLDL		
QUEEN CH.SOUND	GB12	51	5.6	128	33.3	82	5	27	2			X		X	GLDL		
QUEEN CH.SOUND	GB13	51	4.8	128	28.5	82	5	27	2			X		X	GLDL		
QUEEN CH.SOUND	GB14	51	4.1	128	24.0	82	5	27	3			X		X	GLDL		

QUEEN CH.SOUND	GB15	51	3.5	128	19.2	82	5	27	3			X		X	GLDL	
QUEEN CH.SOUND	GB16	51	3.0	128	14.8	82	5	27	4			X		X	GLDL	
QUEEN CH.SOUND	GB17	51	2.3	128	10.2	82	5	27	5			X		X	GLDL	
QUEEN CH.SOUND	GB15	51	1.5	128	5.8	82	5	27	5			X		X	GLDL	
QUEEN CH.SOUND	GB19	51	1.0	128	1.4	82	5	27	6			X		X	GLDL	
QUEEN CH.SOUND	GB20	51	0.4	127	57.0	82	5	27	6			X		X	GLDL	
QUEEN CH.SOUND	C09	51	21.0	128	54.7	82	5	29	14			X		X	GLDL	
QUEEN CH.SOUND	C08	51	23.0	128	54.7	82	5	29	15			X		X	GLDL	
QUEEN CH.SOUND	C07	51	24.5	128	54.7	82	5	29	16			X		X	GLDL	
QUEEN CH.SOUND	C06	51	26.2	128	54.7	82	5	29	17			X		X	GLDL	
QUEEN CH.SOUND	C05	51	28.0	128	54.7	82	5	29	17			X		X	GLDL	
QUEEN CH.SOUND	C04	51	30.0	128	54.7	82	5	29	18			X		X	GLDL	
QUEEN CH.SOUND	C03	51	31.2	128	54.7	82	5	29	18			X		X	GLDL	
QUEEN CH.SOUND	C02	51	32.8	128	54.7	82	5	29	18			X		X	GLDL	
QUEEN CH.SOUND	C01	51	34.0	128	54.7	82	5	29	19			X		X	GLDL	
QUEEN CH.SOUND	C0	51	35.3	128	54.7	82	5	29	19			X		X	GLDL	
QUEEN CH.SOUND	GB00	51	26.0	128	54.0	82	5	30	5			X		X	GLDL	
QUEEN CH.SOUND	M 0	51	35.5	128	55.0	82	5	30	10			X		X	GLDL	
QUEEN CH.SOUND	M 1	51	35.5	129	2.0	82	5	30	3			X		X	GLDL	
QUEEN CH.SOUND	M 2	51	35.6	129	18.5	82	5	30	4			X		X	GLDL	
QUEEN CH.SOUND	M 3	51	35.6	129	18.5	82	5	30	4			X		X	GLDL	
QUEEN CH.SOUND	M04	51	40.2	129	23.2	82	5	30	5			X		X	GLDL	
QUEEN CH.SOUND	M05	51	44.5	129	28.0	82	5	30	6			X		X	GLDL	
QUEEN CH.SOUND	M06	51	46.2	129	30.0	82	5	30	6			X		X	GLDL	
QUEEN CH.SOUND	M07	51	48.3	129	32.1	82	5	30	7			X		X	GLDL	
QUEEN CH.SOUND	M08	51	50.7	129	33.0	82	5	30	8			X		X	GLDL	
QUEEN CH.SOUND	M09	51	53.0	129	38.7	82	5	30	8			X		X	GLDL	
QUEEN CH.SOUND	M10	51	55.5	129	42.9	82	5	30	9			X		X	GLDL	
QUEEN CH.SOUND	M11	51	57.6	129	46.0	82	5	30	9			X		X	GLDL	
QUEEN CH.SOUND	M12	51	57.6	129	54.5	82	5	30	10			X		X	GLDL	
QUEEN CH.SOUND	M13	51	57.6	130	2.5	82	5	30	11			X		X	GLDL	
QUEEN CH.SOUND	M14	51	57.6	130	10.8	82	5	30	12			X		X	GLDL	
QUEEN CH.SOUND	M15	51	57.8	130	18.5	82	5	30	12			X		X	GLDL	
QUEEN CH.SOUND	M16	51	57.6	130	35.0	82	5	30	13			X		X	GLDL	
QUEEN CH.SOUND	CMCL	51	45.5	130	34.1	82	5	30	16			X		X	GLDL	
QUEEN CH.SOUND	CMCL	51	45.5	130	34.1	82	5	30	17			X		X	GLDL	
QUEEN CH.SOUND	C0	51	35.5	128	55.0	82	5	31	4			X		X	GLDL	
QUEEN CH.SOUND	GI1	51	37.5	128	47.0	82	5	31	5			X		X	GLDL	
QUEEN CH.SOUND	GI2	51	39.4	128	41.0	82	5	31	6			X		X	GLDL	
QUEEN CH.SOUND	GI3	51	40.5	128	36.9	82	5	31	6			X		X	GLDL	
QUEEN CH.SOUND	GI4	51	41.0	128	33.0	82	5	31	7			X		X	GLDL	
QUEEN CH.SOUND	GI5	51	42.8	128	28.7	82	5	31	8			X		X	GLDL	
QUEEN CH.SOUND	GI6	51	43.6	128	24.0	82	5	31	8			X		X	GLDL	
QUEEN CH.SOUND	GI7	51	44.6	128	21.0	82	5	31	9			X		X	GLDL	
QUEEN CH.SOUND	GI8	51	45.3	128	18.5	82	5	31	9			X		X	GLDL	
QUEEN CH.SOUND	C00	51	35.3	128	54.7	82	6	1	0			X		X	GLDL	
QUEEN CH.SOUND	C01	51	34.0	128	54.7	82	6	1	1			X		X	GLDL	
QUEEN CH.SOUND	C02	51	32.8	128	54.7	82	6	1	1			X		X	GLDL	
QUEEN CH.SOUND	C03	51	31.2	128	54.7	82	6	1	1			X		X	GLDL	
QUEEN CH.SOUND	C04	51	30.0	128	54.7	82	6	1	1			X		X	GLDL	
QUEEN CH.SOUND	C05	51	28.0	128	54.7	82	6	1	2			X		X	GLDL	
QUEEN CH.SOUND	C06	51	26.2	128	54.7	82	6	1	2			X		X	GLDL	
QUEEN CH.SOUND	C07	51	24.5	128	54.7	82	6	1	2			X		X	GLDL	
QUEEN CH.SOUND	C08	51	23.0	128	54.7	82	6	1	3			X		X	GLDL	
QUEEN CH.SOUND	C 10	51	18.4	128	53.4	82	6	1	3			X		X	GLDL	
QUEEN CH.SOUND	C 11	51	15.5	128	52.0	82	6	1	4			X		X	GLDL	
QUEEN CH.SOUND	C 12	51	12.8	128	50.5	82	6	1	4			X		X	GLDL	
QUEEN CH.SOUND	C13	51	10.0	128	49.0	82	6	1	5			X		X	GLDL	
QUEEN CH.SOUND	C14	51	7.6	128	47.7	82	6	1	5			X		X	GLDL	
QUEEN CH.SOUND	C15	51	50.0	128	46.5	82	6	1	6			X		X	GLDL	
QUEEN CH.SOUND	C16	51	2.5	128	44.6	82	6	1	6			X		X	GLDL	
QUEEN CH.SOUND	C17	50	59.8	128	43.5	82	6	1	7			X		X	GLDL	
QUEEN CH.SOUND	C18	50	55.2	128	37.6	82	6	1	8			X		X	GLDL	
QUEEN CH.SOUND	C19	50	53.3	128	24.0	82	6	1	8			X		X	GLDL	
QUEEN CH.SOUND	C20	50	51.5	128	32.3	82	6	1	9			X		X	GLDL	
QUEEN CH.SOUND	C21	50	49.3	128	29.5	82	6	1	9			X		X	GLDL	
QUEEN CH.SOUND	C22	50	48.1	128	27.5	82	6	1	10			X		X	GLDL	

BOTTLE/CTD DATA SET NUMBER: 82-0052
YEAR:1982 VESSEL/AGENCY: AMAX,DOBROCKY

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO	DEPTH	MEAS				HR
										(M)	(M)	C	S	T		
ALICE ARM	17.5	55	26.00	129	40.05	82	1	17	23	230.0		X		X	GLDL	

ALICE ARM	AA	55 27.90	129 29.25	82	1	18	3	91.8		X		X	GLDL		
ALICE ARM	CC	55 26.69	129 31.80	82	1	18	2	256.8		X		X	GLDL		
ALICE ARM	EE	55 27.15	129 37.05	82	1	18	0	296.5		X		X	GLDL		
ALICE ARM	HH	55 24.75	129 40.75	82	1	17	23	76.6		X		X	GLDL		
ALICE ARM	OI-1	55 21.80	129 45.37	82	1	17	21	181.5		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 82-0053
YEAR:1982 VESSEL/AGENCY: AMAX,DOBROCKY

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALICE ARM	17.5	55 26.00	129 40.05	82	3	7	23	196.8		X		X	GLDL		
ALICE ARM	AA	55 27.90	129 29.25	82	3	8	5	91.9		X		X	GLDL		
ALICE ARM	CC	55 26.69	129 31.80	82	3	8	3	272.0		X		X	GLDL		
ALICE ARM	EE	55 27.15	129 37.05	82	3	8	0	346.3		X		X	GLDL		
ALICE ARM	HH	55 24.75	129 40.75	82	3	7	22	82.0		X		X	GLDL		
ALICE ARM	OI-1	55 21.80	129 45.37	82	3	7	21	192.5		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 82-0054
YEAR:1982 VESSEL/AGENCY: AMAX,DOBROCKY

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALICE ARM	17.5	55 26.00	129 40.05	82	5	13	20	215.2		X		X	GLDL		
ALICE ARM	AA	55 27.90	129 29.25	82	5	14	0	91.4		X		X	GLDL		
ALICE ARM	CC	55 26.69	129 31.80	82	5	13	23	246.8		X		X	GLDL		
ALICE ARM	EE	55 27.15	129 37.05	82	5	13	21	350.8		X		X	GLDL		
ALICE ARM	HH	55 24.75	129 40.75	82	5	13	19	83.3		X		X	GLDL		
ALICE ARM	OI-1	55 21.80	129 45.37	82	5	13	18	191.5		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 82-0055
YEAR:1982 VESSEL/AGENCY: AMAX,DOBROCKY

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALICE ARM	17.5	55 26.00	129 40.05	82	7	7	19	216.6		X		X	GLDL		
ALICE ARM	AA	55 27.90	129 29.25	82	7	7	23	92.1		X		X	GLDL		
ALICE ARM	CC	55 26.69	129 31.80	82	7	8	2	251.6		X		X	GLDL		
ALICE ARM	EE	55 27.15	129 37.05	82	7	7	20	346.2		X		X	GLDL		
ALICE ARM	HH	55 24.75	129 40.75	82	7	7	18	76.9		X		X	GLDL		
ALICE ARM	OI-1	55 21.80	129 45.37	82	7	7	17	181.7		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 82-0056
YEAR:1982 VESSEL/AGENCY: AMAX,DOBROCKY

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO	DEPTH	MEAS				HR
										(M)	(M)	C	S	T		
ALICE ARM	17.5	55	26.00	129	40.05	82	9	15	19	226.7		X		X	GLDL	
ALICE ARM	AA	55	27.90	129	29.25	82	9	15	22	96.6		X		X	GLDL	
ALICE ARM	CC	55	26.69	129	31.80	82	9	15	21	251.6		X		X	GLDL	
ALICE ARM	EE	55	27.15	129	37.05	82	9	15	20	348.1		X		X	GLDL	
ALICE ARM	HH	55	24.75	129	40.75	82	9	15	18	86.7		X		X	GLDL	
ALICE ARM	OI-1	55	21.80	129	45.37	82	9	15	17	181.2		X		X	GLDL	

BOTTLE/CTD DATA SET NUMBER: 82-0057
YEAR:1982 VESSEL/AGENCY: AMAX,DOBROCKY

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO	DEPTH	MEAS				HR
										(M)	(M)	C	S	T		
ALICE ARM	17.5	55	26.00	129	40.05	82	12	10	1	201.6		X		X	GLDL	
ALICE ARM	AA	55	27.90	129	29.25	82	12	10	6	100.4		X		X	GLDL	
ALICE ARM	CC	55	26.69	129	31.80	82	12	10	5	236.5		X		X	GLDL	
ALICE ARM	EE	55	27.15	129	37.05	82	12	10	3	371.8		X		X	GLDL	
ALICE ARM	HH	55	24.75	129	40.75	82	12	10	0	76.3		X		X	GLDL	
ALICE ARM	OI-1	55	21.80	129	45.37	82	12	9	23	186.4		X		X	GLDL	

BOTTLE/CTD DATA SET NUMBER: 82-0059
YEAR:1982 VESSEL/AGENCY: AMAX,DOBROCKY

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO	DEPTH	MEAS				HR
										(M)	(M)	C	S	T		
ALICE ARM	17.5	55	26.00	129	40.05	82	2	13	21	197.8		X		X	GLDL	
ALICE ARM	AA	55	27.90	129	29.25	82	2	14	1	91.6		X		X	GLDL	
ALICE ARM	CC	55	26.69	129	31.80	82	2	13	23	222.1		X		X	GLDL	
ALICE ARM	EE	55	27.15	129	37.05	82	2	13	22	346.7		X		X	GLDL	
ALICE ARM	HH	55	24.75	129	40.75	82	2	13	20	72.0		X		X	GLDL	
ALICE ARM	OI-1	55	21.80	129	45.37	82	2	13	18	186.7		X		X	GLDL	

BOTTLE/CTD DATA SET NUMBER: 82-0060
YEAR:1982 VESSEL/AGENCY: AMAX,DOBROCKY

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO	DEPTH	MEAS				HR
										(M)	(M)	C	S	T		
ALICE ARM	17.5	55	26.00	129	40.05	82	4	16	22	181.8		X		X	GLDL	
ALICE ARM	AA	55	27.90	129	29.25	82	4	17	3	96.9		X		X	GLDL	
ALICE ARM	CC	55	26.69	129	31.80	82	4	17	0	246.8		X		X	GLDL	
ALICE ARM	EE	55	27.15	129	37.05	82	4	16	23	371.8		X		X	GLDL	
ALICE ARM	HH	55	24.75	129	40.75	82	4	16	21	79.3		X		X	GLDL	
ALICE ARM	OI-1	55	21.80	129	45.37	82	4	16	19	176.4		X		X	GLDL	

BOTTLE/CTD DATA SET NUMBER: 82-0061
YEAR:1982 VESSEL/AGENCY: AMAX,DOBROCKY

AREA	STN	LAT		LON		DATE				CAST TO	WATER DEPTH	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	(M)	(M)	C	S	T			
ALICE ARM	17.5	55	26.00	129	40.05	82	6	9	19	191.9		X		X	GLDL		
ALICE ARM	AA	55	27.90	129	29.25	82	6	9	22	91.9		X		X	GLDL		
ALICE ARM	CC	55	26.69	129	31.80	82	6	9	21	251.9		X		X	GLDL		
ALICE ARM	EE	55	27.15	129	37.05	82	6	9	20	347.3		X		X	GLDL		
ALICE ARM	HH	55	24.75	129	40.75	82	6	9	18	71.3		X		X	GLDL		
ALICE ARM	OI-1	55	21.80	129	45.37	82	6	9	17	192.0		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 82-0062
YEAR:1982 VESSEL/AGENCY: AMAX,DOBROCKY

AREA	STN	LAT		LON		DATE				CAST TO	WATER DEPTH	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	(M)	(M)	C	S	T			
ALICE ARM	17.5	55	26.00	129	40.05	82	8	7	2	217.1		X		X	GLDL		
ALICE ARM	AA	55	27.90	129	29.25	82	8	6	23	92.1		X		X	GLDL		
ALICE ARM	CC	55	26.69	129	31.80	82	8	7	5	247.1		X		X	GLDL		
ALICE ARM	EE	55	27.15	129	37.05	82	8	7	3	357.3		X		X	GLDL		
ALICE ARM	HH	55	24.75	129	40.75	82	8	6	21	77.1		X		X	GLDL		
ALICE ARM	OI-1	55	21.80	129	45.37	82	8	6	20	186.9		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 82-0063
YEAR:1982 VESSEL/AGENCY: AMAX,DOBROCKY

AREA	STN	LAT		LON		DATE				CAST TO	WATER DEPTH	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	(M)	(M)	C	S	T			
ALICE ARM	17.5	55	26.00	129	40.05	82	10	14	20	217.5		X		X	GLDL		
ALICE ARM	AA	55	27.90	129	29.25	82	10	15	4	96.7		X		X	GLDL		
ALICE ARM	CC	55	26.69	129	31.80	82	10	15	3	256.8		X		X	GLDL		
ALICE ARM	EE	55	27.15	129	37.05	82	10	14	21	367.8		X		X	GLDL		
ALICE ARM	HH	55	24.75	129	40.75	82	10	14	20	78.2		X		X	GLDL		
ALICE ARM	OI-1	55	21.80	129	45.37	82	10	14	18	187.7		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 82-0064
YEAR:1982 VESSEL/AGENCY: EPS

AREA	STN	LAT		LON		DATE				CAST TO	WATER DEPTH	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	(M)	(M)	C	S	T			
ALICE ARM	E-7	55	27.4	129	29.57	82	04	2	21			X		X	PLES		
ALICE ARM	E-7	55	27.9	129	29.57	82	04	4	4			X		X	PLES		
ALICE ARM	F-6	55	27.8	129	29.40	82	04	3	2			X		X	PLES		
ALICE ARM	F-6	55	27.8	129	29.40	82	04	4	3			X		X	PLES		
ALICE ARM	G-5	55	27.7	129	29.33	82	04	3	1			X		X	PLES		
ALICE ARM	G-5	55	27.7	129	29.33	82	04	4	3			X		X	PLES		
ALICE ARM	M-9	55	27.1	129	29.92	82	04	3	3			X		X	PLES		
ALICE ARM	N-8	55	27.0	129	29.75	82	04	3	3			X		X	PLES		

ALICE ARM	N-8	55	27.0	129	29.84	82	04	4	2			X		X	PLES	
ALICE ARM	N-9	55	27.1	129	29.90	82	04	3	19			X		X	PLES	
ALICE ARM	L-10	55	27.2	129	30.10	82	04	3	4			X		X	PLES	
ALICE ARM	L-10	55	27.2	129	30.10	82	04	3	19			X		X	PLES	
ALICE ARM	M-12	55	27.1	129	30.42	82	04	4	6			X		X	PLES	
ALICE ARM	M-40	55	27.1	129	35.38	82	04	4	5			X		X	PLES	
ALICE ARM	M-49	55	27.1	129	39.95	82	04	3	23			X		X	PLES	
ALICE ARM	N-11	55	27.0	129	30.28	82	04	4	6			X		X	PLES	
ALICE ARM	N-14	55	27.0	129	30.78	82	04	4	2			X		X	PLES	
ALICE ARM	N-14	55	27.0	129	30.82	82	04	3	14			X		X	PLES	
ALICE ARM	O-10	55	26.87	129	30.50	82	04	4	5			X		X	PLES	
ALICE ARM	O-13	55	26.9	129	30.60	82	04	3	4			X		X	PLES	
ALICE ARM	O-13	55	26.9	129	30.60	82	04	4	2			X		X	PLES	
ALICE ARM	O-20	55	26.9	129	31.87	82	04	4	0			X		X	PLES	
ALICE ARM	O-32	55	26.9	129	33.98	82	04	4	4			X		X	PLES	
ALICE ARM	P-12	55	26.8	129	30.44	82	04	3	5			X		X	PLES	
ALICE ARM	P-12	55	26.8	129	30.44	82	04	4	1			X		X	PLES	
ALICE ARM	Q-20	55	26.7	129	31.87	82	04	3	23			X		X	PLES	
ALICE ARM	R-64	55	26.6	129	39.55	82	04	3	22			X		X	PLES	
ALICE ARM	S-20	55	26.5	129	31.87	82	04	3	5			X		X	PLES	
ALICE ARM	S-20	55	26.5	129	31.87	82	04	3	23			X		X	PLES	
ALICE ARM	T-64	55	26.4	129	39.55	82	04	3	22			X		X	PLES	
ALICE ARM	V-64	55	26.3	129	39.60	82	04	3	22			X		X	PLES	
ALICE ARM	B1-68	55	26.6	129	40.30	82	04	3	21			X		X	PLES	
ALICE ARM	F1-67	55	25.7	129	40.10	82	04	3	21			X		X	PLES	
ALICE ARM	G1-69	55	25.5	129	40.25	82	04	3	20			X		X	PLES	
ALICE ARM	K1-70	55	24.7	129	40.60	82	04	3	20			X		X	PLES	

BOTTLE/CTD DATA SET NUMBER: 82-0065
YEAR:1982 VESSEL/AGENCY: EPS

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO	DEPTH	MEAS				HR
										(M)	(M)	C	S	T		
MASSETT INLET	5	53	41.3	132	12.5	82	04	22	17			X		X	PLES	
MASSETT INLET	5	53	41.3	132	12.5	82	04	22	17			X		X	PLES	
MASSETT INLET	6	53	40.7	132	14.7	82	04	22	16			X		X	PLES	
MASSETT INLET	7	53	40.7	132	14.7	82	04	22	7			X		X	PLES	
MASSETT INLET	8	53	41.9	132	15.4	82	04	22	6			X		X	PLES	
MASSETT INLET	8	53	41.9	132	17.1	82	04	22	6			X		X	PLES	
MASSETT INLET	8	53	42.0	132	15.2	82	04	24	16			X		X	PLES	
MASSETT INLET	9	53	43.4	132	13.0	82	04	22	18			X		X	PLES	
MASSETT INLET	10	53	43.7	132	15.7	82	04	24	18			X		X	PLES	
MASSETT INLET	10	53	43.7	132	15.8	82	04	22	5			X		X	PLES	
MASSETT INLET	11	53	42.5	132	21.4	82	04	22	0			X		X	PLES	
MASSETT INLET	12	53	41.4	132	25.2	82	04	24	17			X		X	PLES	
MASSETT INLET	12	53	41.4	132	25.2	82	04	24	17			X		X	PLES	
MASSETT INLET	12	53	41.4	132	26.5	82	04	22	2			X		X	PLES	
MASSETT INLET	13	53	41.2	132	31.7	82	04	21	16			X		X	PLES	
MASSETT INLET	14	53	44.6	132	20.7	82	04	22	4			X		X	PLES	
PORPOISE HBR	P18	54	14.25	130	18.40	82	04	22	19			X		X	PLES	
PORPOISE HBR	P20	54	12.10	130	18.30	82	04	22	19			X		X	PLES	
PORPOISE HBR	PH1	54	14.55	130	18.34	82	04	22	19			X		X	PLES	
PORPOISE HBR	PH2	54	12.51	130	17.72	82	04	22	19			X		X	PLES	
PORPOISE HBR	PH3	54	13.90	130	18.05	82	04	22	19			X		X	PLES	

BOTTLE/CTD DATA SET NUMBER: 82-0066
YEAR:1982 VESSEL/AGENCY: EPS

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO	DEPTH	MEAS				HR
										(M)	(M)	C	S	T		
ALICE ARM	G-5	55	27.7	129	29.30	82	07	12	7			X		X	PLES	
ALICE ARM	M-9	55	27.1	129	29.90	82	07	12	1			X		X	PLES	
ALICE ARM	M-9	55	27.1	129	29.92	82	07	9	3			X		X	PLES	
ALICE ARM	M-9	55	27.1	129	29.92	82	07	9	3			X		X	PLES	
ALICE ARM	M-9	55	27.1	129	29.92	82	07	11	7			X		X	PLES	

ALICE ARM	M-9	55 27.1	129 29.92	82	07	13	6			X		X	PLES		
ALICE ARM	N-8	55 27.0	129 29.38	82	07	9	6			X		X	PLES		
ALICE ARM	N-8	55 27.0	129 29.38	82	07	9	7			X		X	PLES		
ALICE ARM	N-8	55 27.0	129 29.38	82	07	9	7			X		X	PLES		
ALICE ARM	N-8	55 27.0	129 29.38	82	07	9	8			X		X	PLES		
ALICE ARM	N-8	55 27.0	129 29.75	82	07	9	3			X		X	PLES		
ALICE ARM	N-8	55 27.0	129 29.75	82	07	13	6			X		X	PLES		
ALICE ARM	N-8	55 27.0	129 29.80	82	07	11	8			X		X	PLES		
ALICE ARM	N-8	55 27.0	129 29.80	82	07	12	1			X		X	PLES		
ALICE ARM	K-49	55 27.3	129 36.95	82	07	11	4			X		X	PLES		
ALICE ARM	K-49	55 27.3	129 36.95	82	07	12	22			X		X	PLES		
ALICE ARM	L-10	55 27.2	129 30.18	82	07	9	3			X		X	PLES		
ALICE ARM	L-10	55 27.2	129 30.18	82	07	11	7			X		X	PLES		
ALICE ARM	L-10	55 27.2	129 30.18	82	07	12	1			X		X	PLES		
ALICE ARM	L-10	55 27.2	129 30.18	82	07	13	6			X		X	PLES		
ALICE ARM	L-32	55 27.2	129 33.98	82	07	11	4			X		X	PLES		
ALICE ARM	L-32	55 27.2	129 33.98	82	07	12	23			X		X	PLES		
ALICE ARM	M-12	55 27.1	129 30.42	82	07	9	4			X		X	PLES		
ALICE ARM	M-40	55 27.1	129 35.38	82	07	11	4			X		X	PLES		
ALICE ARM	M-49	55 27.1	129 36.95	82	07	11	3			X		X	PLES		
ALICE ARM	N-11	55 27.0	129 30.28	82	07	9	4			X		X	PLES		
ALICE ARM	N-14	55 27.0	129 30.82	82	07	11	6			X		X	PLES		
ALICE ARM	N-14	55 27.0	129 30.82	82	07	12	2			X		X	PLES		
ALICE ARM	N-14	55 27.0	129 30.82	82	07	13	5			X		X	PLES		
ALICE ARM	O-10	55 26.87	129 30.50	82	07	9	5			X		X	PLES		
ALICE ARM	O-13	55 26.9	129 30.60	82	07	12	2			X		X	PLES		
ALICE ARM	O-13	55 26.9	129 30.65	82	07	11	7			X		X	PLES		
ALICE ARM	O-13	55 26.9	129 30.65	82	07	13	5			X		X	PLES		
ALICE ARM	O-13	55 29.90	129 30.60	82	07	9	6			X		X	PLES		
ALICE ARM	O-20	55 26.9	129 31.78	82	07	11	6			X		X	PLES		
ALICE ARM	O-20	55 26.9	129 31.78	82	07	13	1			X		X	PLES		
ALICE ARM	O-32	55 26.9	129 33.98	82	07	11	5			X		X	PLES		
ALICE ARM	O-32	55 26.9	129 33.98	82	07	12	23			X		X	PLES		
ALICE ARM	O-49	55 26.9	129 36.95	82	07	11	3			X		X	PLES		
ALICE ARM	O-49	55 26.9	129 36.95	82	07	12	22			X		X	PLES		
ALICE ARM	P-12	55 29.9	129 30.44	82	07	11	7			X		X	PLES		
ALICE ARM	P-12	55 29.9	129 30.44	82	07	12	2			X		X	PLES		
ALICE ARM	P-12	55 29.9	129 30.44	82	07	13	5			X		X	PLES		
ALICE ARM	P-12	55 29.90	129 30.44	82	07	9	5			X		X	PLES		
ALICE ARM	Q-20	55 26.7	129 31.78	82	07	11	6			X		X	PLES		
ALICE ARM	Q-20	55 26.7	129 31.78	82	07	13	1			X		X	PLES		
ALICE ARM	Q-20	55 26.7	129 31.78	82	07	13	3			X		X	PLES		
ALICE ARM	Q-20	55 26.7	129 31.78	82	07	13	4			X		X	PLES		
ALICE ARM	Q-20	55 26.7	129 31.78	82	07	13	4			X		X	PLES		
ALICE ARM	Q-20	55 26.7	129 31.78	82	07	13	4			X		X	PLES		
ALICE ARM	Q-20	55 26.7	129 31.85	82	07	12	3			X		X	PLES		
ALICE ARM	Q-20	55 26.70	129 31.85	82	07	9	6			X		X	PLES		
ALICE ARM	Q-26			82	07	10	19			X		X	PLES		
ALICE ARM	R-32	55 26.6	129 33.98	82	07	11	5			X		X	PLES		
ALICE ARM	R-32	55 26.6	129 33.98	82	07	12	22			X		X	PLES		
ALICE ARM	S-20	55 26.5	129 31.78	82	07	11	5			X		X	PLES		
ALICE ARM	S-20	55 26.5	129 31.78	82	07	13	5			X		X	PLES		
ALICE ARM	T-64	55 26.4	129 39.55	82	07	11	2			X		X	PLES		
ALICE ARM	T-64	55 26.4	129 39.55	82	07	12	21			X		X	PLES		
ALICE ARM	B1-68	55 25.6	129 40.30	82	07	11	2			X		X	PLES		
ALICE ARM	B1-68	55 25.6	129 40.30	82	07	12	21			X		X	PLES		
ALICE ARM	F1-67	55 25.1	129 40.1	82	07	11	1			X		X	PLES		
ALICE ARM	K1-70	55 24.7	129 40.6	82	07	11	1			X		X	PLES		
ALICE ARM	K1-70	55 24.7	129 40.60	82	07	12	20			X		X	PLES		

BOTTLE/CTD DATA SET NUMBER: 82-0067
YEAR:1982 VESSEL/AGENCY: EPS

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALICE ARM	G-5	55 27.7	129 29.33	82	10	1	22			X		X	PLES		
ALICE ARM	G-5	55 27.7	129 29.33	82	10	1	23			X		X	PLES		
ALICE ARM	L-9			82	09	30	23			X		X	PLES		
ALICE ARM	M-8			82	09	30	23			X		X	PLES		
ALICE ARM	M-9	55 27.1	129 29.90	82	10	2	0			X		X	PLES		
ALICE ARM	M-9	55 27.1	129 29.90	82	10	2	1			X		X	PLES		
ALICE ARM	N-7			82	09	25	17			X		X	PLES		
ALICE ARM	N-7			82	09	31	0			X		X	PLES		
ALICE ARM	N-8	55 27.02	129 29.82	82	10	2	1			X		X	PLES		

ALICE ARM	AA-1					82	09	27	17			X		X	PLES	
ALICE ARM	AA-2					82	09	27	15			X		X	PLES	
ALICE ARM	AA-3					82	09	27	1			X		X	PLES	
ALICE ARM	AA-4					82	09	26	17			X		X	PLES	
ALICE ARM	AA-4					82	09	26	19			X		X	PLES	
ALICE ARM	AA-5					82	09	26	16			X		X	PLES	
ALICE ARM	DI-2					82	09	29	3			X		X	PLES	
ALICE ARM	GR-1					82	09	28	15			X		X	PLES	
ALICE ARM	HA-3	55	27.0	129	43.9	82	09	27	23			X		X	PLES	
ALICE ARM	HA-5					82	09	27	7			X		X	PLES	
ALICE ARM	L-10	55	27.2	129	30.10	82	10	2	0			X		X	PLES	
ALICE ARM	L-10	55	27.2	129	30.10	82	10	2	4			X		X	PLES	
ALICE ARM	M-11					82	09	31	0			X		X	PLES	
ALICE ARM	N-10					82	09	30	23			X		X	PLES	
ALICE ARM	N-14					82	09	30	23			X		X	PLES	
ALICE ARM	N-14	55	27.0	129	30.78	82	10	2	2			X		X	PLES	
ALICE ARM	O-13					82	09	30	22			X		X	PLES	
ALICE ARM	O-13	55	26.9	129	30.60	82	10	2	3			X		X	PLES	
ALICE ARM	O-16					82	09	30	21			X		X	PLES	
ALICE ARM	O-19					82	09	30	18			X		X	PLES	
ALICE ARM	O-20	55	26.9	129	31.87	82	10	2	3			X		X	PLES	
ALICE ARM	OB-2					82	09	29	0			X		X	PLES	
ALICE ARM	OB-2					82	09	30	22			X		X	PLES	
ALICE ARM	OB-4					82	09	28	20			X		X	PLES	
ALICE ARM	OB-6					82	09	28	16			X		X	PLES	
ALICE ARM	P-12		26.8		30.44	82	09	30	21			X		X	PLES	
ALICE ARM	P-12	55	26.8	129	30.44	82	10	2	3			X		X	PLES	
ALICE ARM	P-16					82	09	30	21			X		X	PLES	
ALICE ARM	P-19					82	09	30	18			X		X	PLES	
ALICE ARM	PI-2					82	09	30	22			X		X	PLES	
ALICE ARM	Q-16					82	09	30	19			X		X	PLES	
ALICE ARM	Q-16					82	09	30	20			X		X	PLES	
ALICE ARM	Q-16					82	09	30	21			X		X	PLES	
ALICE ARM	Q-19	55	26.70	129	31.66	82	09	30	18			X		X	PLES	
ALICE ARM	Q-20	55	26.7	129	31.87	82	10	2	4			X		X	PLES	
ALICE ARM	R-16					82	09	30	19			X		X	PLES	
ALICE ARM	R-19					82	09	30	18			X		X	PLES	
ALICE ARM	R-64	55	26.6	129	39.55	82	10	3	3			X		X	PLES	
ALICE ARM	S-19					82	09	30	17			X		X	PLES	
ALICE ARM	S-20	55	26.5	129	31.87	82	10	2	4			X		X	PLES	
ALICE ARM	T-64	55	26.4	129	39.55	82	10	3	3			X		X	PLES	
ALICE ARM	V-64	55	26.3	129	39.55	82	10	3	2			X		X	PLES	
ALICE ARM	KI-70	55	24.7	129	40.60	82	10	3	2			X		X	PLES	

BOTTLE/CTD DATA SET NUMBER: 82-0068
YEAR:1982 VESSEL/AGENCY: IOS,ENDEAVOUR

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT NO HR
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T		
QUEEN CH.SOUND	Q09	52	06.5	130	38.6	82	09	18	16		225	X		X	GLDL	
QUEEN CH.SOUND	Q09	52	06.5	130	38.6	82	09	18	19		231	X		X	GLDL	
QUEEN CH.SOUND	Q06	51	52.0	130	28.0	82	09	18	21		295	X		X	GLDL	
QUEEN CH.SOUND	Q06	51	57.3	130	58.3	82	09	19	1		110	X		X	GLDL	
QUEEN CH.SOUND	M18	51	57.3	130	55.3	82	09	19	1		125	X		X	GLDL	
QUEEN CH.SOUND	M17	51	57.3	130	50.3	82	09	19	2		195	X		X	GLDL	
QUEEN CH.SOUND	M16	51	57.3	130	35.0	82	09	19	3		335	X		X	GLDL	
QUEEN CH.SOUND	M15	51	57.4	130	18.3	82	09	19	4		300	X		X	GLDL	
QUEEN CH.SOUND	M14	51	57.3	130	10.4	82	09	19	5		175	X		X	GLDL	
QUEEN CH.SOUND	M13	51	57.3	130	02.3	82	09	19	5		135	X		X	GLDL	
QUEEN CH.SOUND	Q11	51	50.4	128	33.6	82	09	19	17		133	X		X	GLDL	
QUEEN CH.SOUND	GI8	51	46.0	128	16.0	82	09	19	18		115	X		X	GLDL	
QUEEN CH.SOUND	GI07	51	44.4	128	20.4	82	09	19	19		145	X		X	GLDL	
QUEEN CH.SOUND	GI06	51	43.4	128	24.3	82	09	19	20		145	X		X	GLDL	
QUEEN CH.SOUND	GI05	51	42.4	128	28.3	82	09	19	20		140	X		X	GLDL	
QUEEN CH.SOUND	GI04	51	41.0	128	34.0	82	09	19	21		125	X		X	GLDL	
QUEEN CH.SOUND	GI03	51	40.3	128	36.4	82	09	19	21		40	X		X	GLDL	
QUEEN CH.SOUND	GI02	51	39.2	128	40.4	82	09	19	23		40	X		X	GLDL	
QUEEN CH.SOUND	GI01	51	37.3	128	46.4	82	09	20	0		40	X		X	GLDL	
QUEEN CH.SOUND	QC00	51	35.3	128	54.4	82	09	20	0		35	X		X	GLDL	
QUEEN CH.SOUND	C1	51	34.0	128	54.4	82	09	20	1		45	X		X	GLDL	
QUEEN CH.SOUND	C2	51	32.4	128	54.4	82	09	20	1		45	X		X	GLDL	
QUEEN CH.SOUND	C3	51	31.1	128	54.4	82	09	20	1		45	X		X	GLDL	
QUEEN CH.SOUND	C4	51	30.0	128	54.4	82	09	20	1		45	X		X	GLDL	
QUEEN CH.SOUND	C5	51	28.0	128	54.4	82	09	20	2		90	X		X	GLDL	

QUEEN CH.SOUND	C6	51	26.1	128	54.4	82	09	20	2	150	X	X	GLDL
QUEEN CH.SOUND	C7	51	24.4	128	54.4	82	09	20	2	190	X	X	GLDL
QUEEN CH.SOUND	C8	51	23.0	128	54.4	82	09	20	3	215	X	X	GLDL
QUEEN CH.SOUND	C9	51	21.0	128	54.4	82	09	20	3	225	X	X	GLDL
QUEEN CH.SOUND	C10	51	18.2	128	53.2	82	09	20	3	225	X	X	GLDL
QUEEN CH.SOUND	C11	51	15.3	128	52.0	82	09	20	4	220	X	X	GLDL
QUEEN CH.SOUND	C12	51	12.4	128	50.3	82	09	20	4	130	X	X	GLDL
QUEEN CH.SOUND	C13	51	10.0	128	49.0	82	09	20	5	100	X	X	GLDL
QUEEN CH.SOUND	C14	51	07.3	128	47.4	82	09	20	5	90	X	X	GLDL
QUEEN CH.SOUND	C15	51	05.0	128	46.3	82	09	20	6	65	X	X	GLDL
QUEEN CH.SOUND	C16	51	02.3	128	44.4	82	09	20	6	59	X	X	GLDL
QUEEN CH.SOUND	C17	50	59.4	128	43.3	82	09	20	6	65	X	X	GLDL
QUEEN CH.SOUND	C17A	50	57.3	128	41.0	82	09	20	7	65	X	X	GLDL
QUEEN CH.SOUND	C18	50	55.1	128	37.3	82	09	20	7	65	X	X	GLDL
QUEEN CH.SOUND	C19	50	53.2	128	34.5	82	09	20	8	60	X	X	GLDL
QUEEN CH.SOUND	C20	50	51.3	128	32.2	82	09	20	8	55	X	X	GLDL
QUEEN CH.SOUND	C21	50	49.1	128	29.1	82	09	20	9	45	X	X	GLDL
QUEEN CH.SOUND	C22	50	48.1	128	27.3	82	09	20	9	30	X	X	GLDL
QUEEN CH.SOUND	W01	51	11.3	129	30.2	82	09	20	18	287	X	X	GLDL
QUEEN CH.SOUND	M12	51	57.3	129	54.3	82	09	21	0	129	X	X	GLDL
QUEEN CH.SOUND	M11	51	57.3	129	46.0	82	09	21	0	130	X	X	GLDL
QUEEN CH.SOUND	M10	51	55.3	129	42.3	82	09	21	1	196	X	X	GLDL
QUEEN CH.SOUND	M09	51	53.0	129	38.4	82	09	21	1	249	X	X	GLDL
QUEEN CH.SOUND	M08	51	50.4	129	34.0	82	09	21	2	269	X	X	GLDL
QUEEN CH.SOUND	M07	51	48.0	129	32.0	82	09	21	2	247	X	X	GLDL
QUEEN CH.SOUND	M06	51	46.1	129	30.0	82	09	21	3	133	X	X	GLDL
QUEEN CH.SOUND	M05	51	44.3	129	28.0	82	09	21	3	81	X	X	GLDL
QUEEN CH.SOUND	M05	51	44.3	129	28.0	82	09	21	3	79	X	X	GLDL
QUEEN CH.SOUND	M04	51	40.1	129	23.1	82	09	21	4	59	X	X	GLDL
QUEEN CH.SOUND	M03	51	35.3	129	18.3	82	09	21	4	55	X	X	GLDL
QUEEN CH.SOUND	M2	51	35.3	129	10.0	82	09	21	5	43	X	X	GLDL
QUEEN CH.SOUND	M1	51	35.3	129	02.0	82	09	21	6	35	X	X	GLDL
QUEEN CH.SOUND	C0	51	35.3	128	54.4	82	09	21	6	45	X	X	GLDL
QUEEN CH.SOUND	C1	51	34.0	128	54.4	82	09	21	7	45	X	X	GLDL
QUEEN CH.SOUND	C2	51	32.4	128	54.4	82	09	21	7	43	X	X	GLDL
QUEEN CH.SOUND	C3	51	31.1	128	54.4	82	09	21	7	45	X	X	GLDL
QUEEN CH.SOUND	C4	51	30.0	128	54.4	82	09	21	8	45	X	X	GLDL
QUEEN CH.SOUND	C5	51	28.0	128	54.4	82	09	21	8	90	X	X	GLDL
QUEEN CH.SOUND	C6	51	26.1	128	54.4	82	09	21	8	145	X	X	GLDL
QUEEN CH.SOUND	C7	51	24.4	128	54.4	82	09	21	8	190	X	X	GLDL
QUEEN CH.SOUND	C8	51	23.0	128	54.4	82	09	21	9	210	X	X	GLDL
QUEEN CH.SOUND	C9	51	21.0	128	54.4	82	09	21	9	230	X	X	GLDL
QUEEN CH.SOUND	C9	51	21.0	128	54.4	82	09	21	9	230	X	X	GLDL
QUEEN CH.SOUND	C10	51	18.2	128	53.2	82	09	21	10	220	X	X	GLDL
QUEEN CH.SOUND	C11	51	15,3	128	52.0	82	09	21	10	180	X	X	GLDL
QUEEN CH.SOUND	C12	51	12.4	128	50.3	82	09	21	11	120	X	X	GLDL
QUEEN CH.SOUND	C13	51	10.0	128	49.0	82	09	21	11	110	X	X	GLDL
QUEEN CH.SOUND	C14	51	07.3	128	47.4	82	09	21	12	90	X	X	GLDL
QUEEN CH.SOUND	C15	51	05.0	128	46.3	82	09	21	12	63	X	X	GLDL
QUEEN CH.SOUND	C16	51	02.3	128	44.4	82	09	21	12	60	X	X	GLDL
QUEEN CH.SOUND	C17	50	59.4	128	43.3	82	09	21	13	67	X	X	GLDL
QUEEN CH.SOUND	C17A	50	57.3	128	41.0	82	09	21	13	65	X	X	GLDL
QUEEN CH.SOUND	C18	50	55.1	128	37.3	82	09	21	13	75	X	X	GLDL
QUEEN CH.SOUND	C19	50	53.1	128	34.4	82	09	21	14	84	X	X	GLDL
QUEEN CH.SOUND	C20	50	51.3	128	32.1	82	09	21	14	47	X	X	GLDL
QUEEN CH.SOUND	C21	50	49.1	128	29.1	82	09	21	14	60	X	X	GLDL
QUEEN CH.SOUND	C22	50	48.0	128	27.3	82	09	21	15	68	X	X	GLDL
QUEEN CH.SOUND	C09	51	21.0	128	54.4	82	09	21	22	235	X	X	GLDL
QUEEN CH.SOUND	C08	51	23.0	128	54.4	82	09	21	22	223	X	X	GLDL
QUEEN CH.SOUND	C07	51	24.4	128	54.4	82	09	21	22	197	X	X	GLDL
QUEEN CH.SOUND	C06	51	26.1	128	54.4	82	09	21	23	156	X	X	GLDL
QUEEN CH.SOUND	C05	51	28.0	128	54.4	82	09	21	23	99	X	X	GLDL
QUEEN CH.SOUND	C04	51	30.0	128	54.4	82	09	21	23	46	X	X	GLDL
QUEEN CH.SOUND	51	51	31.1	128	54.4	82	09	22	0	49	X	X	GLDL
QUEEN CH.SOUND	C02	51	32.4	128	54.4	82	09	22	0	48	X	X	GLDL
QUEEN CH.SOUND	C01	51	34.0	128	54.4	82	09	22	0	45	X	X	GLDL
QUEEN CH.SOUND	C0	51	35.3	128	54.4	82	09	22	1	45	X	X	GLDL
QUEEN CH.SOUND	C06	51	26.2	128	54.4	82	09	22	1	99	X	X	GLDL
QUEEN CH.SOUND	C05	51	28.0	128	54.4	82	09	22	2	79	X	X	GLDL
QUEEN CH.SOUND	C04	51	30.0	128	54.4	82	09	22	2	44	X	X	GLDL
QUEEN CH.SOUND	C03	51	31.1	128	54.4	82	09	22	2	45	X	X	GLDL
QUEEN CH.SOUND	C02	51	32.4	128	54.4	82	09	22	3	47	X	X	GLDL
QUEEN CH.SOUND	C01	51	34.0	128	54.4	82	09	22	3	45	X	X	GLDL
QUEEN CH.SOUND	C00	51	35.3	128	54.4	82	09	22	3	43	X	X	GLDL
QUEEN CH.SOUND	C06	51	26.2	128	54.4	82	09	22	4	79	X	X	GLDL
QUEEN CH.SOUND	C06	51	26.2	128	54.4	82	09	22	5	79	X	X	GLDL
QUEEN CH.SOUND	C04	51	30.0	128	54.4	82	09	22	6	44	X	X	GLDL
QUEEN CH.SOUND	C04	51	30.0	128	54.4	82	09	22	6	43	X	X	GLDL
QUEEN CH.SOUND	C02	51	32.4	128	54.4	82	09	22	7	42	X	X	GLDL
QUEEN CH.SOUND	C01	51	34.0	128	54.4	82	09	22	7	45	X	X	GLDL
QUEEN CH.SOUND	C00	51	35.3	128	54.4	82	09	22	7	43	X	X	GLDL
QUEEN CH.SOUND	C00	51	35.3	128	54.4	82	09	22	7	43	X	X	GLDL
QUEEN CH.SOUND	C00	51	35.3	128	54.4	82	09	22	7	43	X	X	GLDL

QUEEN	CH.SOUND	C06	51	26.1	128	54.4	82	09	22	8	152	X	X GLDL
QUEEN	CH.SOUND	C05	51	28.0	128	54.4	82	09	22	9	93	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	22	9	52	X	X GLDL
QUEEN	CH.SOUND	C03	51	31.1	128	54.4	82	09	22	9	45	X	X GLDL
QUEEN	CH.SOUND	C02	51	32.4	128	54.4	82	09	22	10	45	X	X GLDL
QUEEN	CH.SOUND	C01	51	34.0	128	54.4	82	09	22	10	44	X	X GLDL
QUEEN	CH.SOUND	C00	51	35.3	128	54.4	82	09	22	10	45	X	X GLDL
QUEEN	CH.SOUND	C00	51	35.3	128	54.4	82	09	22	10	45	X	X GLDL
QUEEN	CH.SOUND	C06	51	26.2	128	54.4	82	09	22	11	157	X	X GLDL
QUEEN	CH.SOUND	C05	51	2	128	54.4	82	09	22	12	92	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	22	12	47	X	X GLDL
QUEEN	CH.SOUND	C03	51	31.1	128	54.4	82	09	22	12	46	X	X GLDL
QUEEN	CH.SOUND	C02	51	32.4	128	54.4	82	09	22	13	46	X	X GLDL
QUEEN	CH.SOUND	C01	51	34.0	128	54.4	82	09	22	13	45	X	X GLDL
QUEEN	CH.SOUND	C00	51	35.3	128	54.4	82	09	22	13	46	X	X GLDL
QUEEN	CH.SOUND	C00	51	35.3	128	54.4	82	09	22	13	46	X	X GLDL
QUEEN	CH.SOUND	GI01	51	37.3	128	46.4	82	09	22	21	38	X	X GLDL
QUEEN	CH.SOUND	GI02	51	39.1	128	40.4	82	09	22	22	40	X	X GLDL
QUEEN	CH.SOUND	GI03	51	40.3	128	36.4	82	09	22	22	43	X	X GLDL
QUEEN	CH.SOUND	GI04	51	41.0	128	34.0	82	09	22	22	131	X	X GLDL
QUEEN	CH.SOUND	GI05	51	42.4	128	28.3	82	09	22	23	148	X	X GLDL
QUEEN	CH.SOUND	GI01	51	37.3	128	46.4	82	09	23	0	39	X	X GLDL
QUEEN	CH.SOUND	GI02	51	39.2	128	40.4	82	09	23	1	37	X	X GLDL
QUEEN	CH.SOUND	GI03	51	40.3	128	36.4	82	09	23	1	40	X	X GLDL
QUEEN	CH.SOUND	GI04	51	41.1	128	34.0	82	09	23	1	131	X	X GLDL
QUEEN	CH.SOUND	GI05	51	42.4	128	28.3	82	09	23	2	147	X	X GLDL
QUEEN	CH.SOUND	GI01	51	37.3	128	46.4	82	09	23	3	38	X	X GLDL
QUEEN	CH.SOUND	GI02	51	39.1	128	40.4	82	09	23	4	34	X	X GLDL
QUEEN	CH.SOUND	GI03	51	40.3	128	36.4	82	09	23	4	35	X	X GLDL
QUEEN	CH.SOUND	GI05	51	42.4	128	28.3	82	09	23	5	147	X	X GLDL
QUEEN	CH.SOUND	GI01	51	37.3	128	46.4	82	09	23	6	37	X	X GLDL
QUEEN	CH.SOUND	GI02	51	39.1	128	40.4	82	09	23	7	35	X	X GLDL
QUEEN	CH.SOUND	GI02	51	39.1	128	40.4	82	09	23	7	35	X	X GLDL
QUEEN	CH.SOUND	GI03	51	40.3	128	36.4	82	09	23	7	48	X	X GLDL
QUEEN	CH.SOUND	GI04	51	41.0	128	34.0	82	09	23	7	127	X	X GLDL
QUEEN	CH.SOUND	GI05	51	42.4	128	28.3	82	09	23	8	147	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	10	51	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	11	51	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	11	51	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	11	47	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	11	47	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	12	47	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	12	47	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	13	47	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	13	47	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	13	47	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	14	47	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	14	47	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	14	47	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	15	47	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	15	47	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	15	47	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	15	47	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	16	47	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	16	47	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	16	47	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	17	47	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	17	45	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	17	45	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	18	45	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	18	45	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	18	45	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	18	45	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	19	45	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	19	45	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	19	45	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	20	45	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	20	45	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	21	45	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	21	45	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	21	45	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	21	45	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	22	45	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	22	45	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	23	22	45	X	X GLDL
QUEEN	CH.SOUND	51	51	35.3	128	54.4	82	09	23	23	46	X	X GLDL
QUEEN	CH.SOUND	M02	51	35.3	129	10.0	82	09	24	0	47	X	X GLDL
QUEEN	CH.SOUND	M03	51	35.3	129	18.3	82	09	24	1	59	X	X GLDL
QUEEN	CH.SOUND	QC01	51	32.1	129	23.0	82	09	24	1	69	X	X GLDL
QUEEN	CH.SOUND	QC02	51	28.4	129	27.1	82	09	24	2	100	X	X GLDL
QUEEN	CH.SOUND	QC03	51	24.4	129	31.5	82	09	24	2	148	X	X GLDL
QUEEN	CH.SOUND	QC04	51	19.2	129	38.0	82	09	24	3	197	X	X GLDL
QUEEN	CH.SOUND	C04	51	30.0	128	54.4	82	09	22	6	43	X	X GLDL

QUEEN CH.SOUND	C04	51 30.0	128 54.4	82 09 22 6		43	X		X	GLDL		
QUEEN CH.SOUND	C04	51 30.0	128 54.4	82 09 22 6		43	X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 83-0002A
YEAR:1983 VESSEL/AGENCY: IOS,ENDEAVOUR

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
Q.CHARLOTTE SD	34	50 59.5	128 47.6	83 07 02			X		X	GLDL		
Q.CHARLOTTE SD	40	51 15.6	129 22.3	83 07 02			X		X	GLDL		
Q.CHARLOTTE SD	43	51 27.4	129 04.4	83 07 03			X		X	GLDL		
Q.CHARLOTTE SD	50	51 09.9	128 24.9	83 07 03			X		X	GLDL		
Q.CHARLOTTE SD	55	51 01.6	128 26.0	83 07 03			X		X	GLDL		
Q.CHARLOTTE ST	62	50 49.5	127 27.0	83 07 04			X		X	GLDL		
Q.CHARLOTTE SD	73	52 03.4	129 42.8	83 07 05			X		X	GLDL		
HECATE STRAIT	79	53 19.2	130 13.1	83 07 05			X		X	GLDL		
HECATE STRAIT	92	53 19.2	131 02.8	83 07 06			X		X	GLDL		
HECATE STRAIT	94	53 11.6	131 00.3	83 07 06			X		X	GLDL		
HECATE STRAIT	96	53 13.2	131 02.8	83 07 06			X		X	GLDL	1	24
DIXON ENTRANCE	U1	54 24.0	133 47.0	83 07 11			X		X	GLDL		
HECATE STRAIT	101	53 11.5	131 13.6	83 07 07			X		X	GLDL	1	24

BOTTLE/CTD DATA SET NUMBER: 83-0002B
YEAR:1983 VESSEL/AGENCY: IOS,ENDEAVOUR

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
DIXON ENTRANCE	Q27	54 18.5	132 48.8	83 7 11 17			X		X	GLDL		
Q. CHARLOTTES	Q28	54 19.0	133 3.2	83 7 11 18			X		X	GLDL		
DIXON ENTRANCE	Q40	54 17.7	132 33.5	83 7 11 15			X		X	GLDL		
DIXON ENTRANCE	Q46	54 34.2	132 31.3	83 7 11 12			X		X	GLDL		
DIXON ENTRANCE	Q47	54 29.4	132 32.0	83 7 11 13			X		X	GLDL		
DIXON ENTRANCE	Q48	54 24.0	132 32.6	83 7 11 14			X		X	GLDL		
DIXON ENTRANCE	Q53	54 38.4	132 31.0	83 7 11 11			X		X	GLDL		
DIXON ENTRANCE	Q54	54 38.4	132 18.0	83 7 11 10			X		X	GLDL		
DIXON ENTRANCE	Q55	54 38.4	132 6.5	83 7 11 9			X		X	GLDL		
DIXON ENTRANCE	Q56	54 34.3	132 6.5	83 7 11 9			X		X	GLDL		
DIXON ENTRANCE	Q57	54 28.8	132 6.5	83 7 11 8			X		X	GLDL		
DIXON ENTRANCE	Q58	54 23.3	132 6.5	83 7 11 7			X		X	GLDL		
DIXON ENTRANCE	Q59	54 11.7	132 6.5	83 7 11 6			X		X	GLDL		
DIXON ENTRANCE	Q60	54 10.2	132 6.5	83 7 11 5			X		X	GLDL		
DIXON ENTRANCE	Q61	54 22.0	131 19.0	83 7 11 2			X		X	GLDL		
DIXON ENTRANCE	Q62	54 15.3	131 46.0	83 7 11 3			X		X	GLDL		
DIXON ENTRANCE	Q63	54 11.0	132 34.5	83 7 11 15			X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 83-0003A
YEAR:1983 VESSEL/AGENCY: VECTOR

AREA	STN	LAT	LON	DATE YR MO DY HR	CAST TO	WATER DEPTH	PARAM MEAS			INSTR	INT HR	NO
ALICE ARM	A-1	55 28.20	129 29.00	83 07 09			X		X			
ALICE ARM	A-5	55 26.75	129 31.00	83 07 09			X		X			
LAMA PASSAGE	C-1	52 00.54	128 06.55	83 07 08			X		X			
TOLMIE CHANNEL	C-2	52 52.85	128 31.65	83 07 08			X		X			
HASTINGS ARM	H-1	55 36.80	129 48.00	83 07 11			X		X			
GRANBY BAY	H-6	55 24.60	129 48.60	83 07 11			X		X			

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALICE ARM	A-12	55 24.80	129 40.70	83 07 10			X		X			

BOTTLE/CTD DATA SET NUMBER: 83-0003B
YEAR:1983 VESSEL/AGENCY: EPS,VECTOR

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALICE ARM	B-3	55 28.2	129 28.9	83 07 10 1			X		X	PLES		
TOLMIE CHANNEL	C-2			83 07 8 22			X		X	PLES		
ALICE ARM	G-5	55 27.7	129 29.2	83 07 10 19			X		X	PLES		
ALICE ARM	M-9	55 27.1	129 29.9	83 07 10 0			X		X	PLES		
ALICE ARM	M-9	55 27.1	129 29.9	83 07 10 17			X		X	PLES		
ALICE ARM	M-9	55 27.9	129 29.9	83 07 10 18			X		X	PLES		
ANYOX	A-15			83 07 12 0			X		X	[illegible]ES		
HASTINGS ARM	HA-1	55 36.8	129 48.0	83 07 11 20			X		X	PLES		
BELLA BELLA	LP-1			83 07 8 16			X		X	PLES		
OBSERVATORY IN	OI-2	55 17.5	129 47.2	83 07 9 19			X		X	PLES		
OBSERVATORY IN	OI-2	55 17.5	129 47.2	83 07 9 19			X		X	PLES		
OBSERVATORY IN	OI-3	55 10.0	129 53.0	83 07 9 18			X		X	PLES		
OBSERVATORY IN	OI-4	55 04.8	129 59.2	83 07 9 17			X		X	PLES		
OBSERVATORY IN	OI-5	54 59.6	130 02.2	83 07 9 16			X		X	PLES		
ALICE ARM	P-15	55 17.5	129 47.2	83 07 9 22			X		X	PLES		
ALICE ARM	P-15	55 26.8	129 30.9	83 07 10 16			X		X	PLES		
ALICE ARM	KI-70	55 24.7	129 40.6	83 07 10 21			X		X	PLES		

BOTTLE/CTD DATA SET NUMBER: 83-0014
YEAR:1983 VESSEL/AGENCY: IOS,VECTOR

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALICE ARM	AA 1	55 24.75	129 40.75	83 1 15 15	69.5		X		X	GLDL		
ALICE ARM	AA 1	55 24.75	129 40.75	83 1 20 20	77.5		X		X	GLDL		
ALICE ARM	AA 2	55 26.00	129 40.05	83 1 15 15	223.8		X		X	GLDL		
ALICE ARM	AA 2	55 26.00	129 40.05	83 1 20 19	216.6		X		X	GLDL		
ALICE ARM	AA 3	55 27.15	129 37.05	83 1 15 16	362.9		X		X	GLDL		
ALICE ARM	AA 3	55 27.15	129 37.05	83 1 20 19	362.7		X		X	GLDL		
ALICE ARM	AA 4	55 26.69	129 31.80	83 1 15 16	256.2		X		X	GLDL		
ALICE ARM	AA 4	55 26.69	129 31.80	83 1 20 18	218.2		X		X	GLDL		
ALICE ARM	AA 5	55 27.90	129 29.25	83 1 15 17	96.2		X		X	GLDL		
ALICE ARM	AA 5	55 27.90	129 29.25	83 1 20 17	96.6		X		X	GLDL		
ALICE ARM	C 3	55 28.10	129 28.85	83 1 20 7	76.0		X		X	GLDL		
ALICE ARM	C 6	55 28.10	129 29.33	83 1 20 7	87.8		X		X	GLDL		
ALICE ARM	E 3	55 27.90	129 28.81	83 1 20 6	88.8		X		X	GLDL		
ALICE ARM	E 5	55 27.90	129 29.18	83 1 20 6	90.9		X		X	GLDL		
ALICE ARM	E 7	55 27.90	129 29.53	83 1 20 7	93.9		X		X	GLDL		
ALICE ARM	G 4	55 27.70	129 29.00	83 1 20 6	89.0		X		X	GLDL		
ALICE ARM	G 6	55 27.70	129 29.33	83 1 20 6	87.5		X		X	GLDL		
ALICE ARM	G 8	55 27.70	129 29.73	83 1 20 6	95.5		X		X	GLDL		
ALICE ARM	HA 1	55 24.90	129 43.10	83 1 15 11	169.6		X		X	GLDL		
ALICE ARM	HA 1	55 24.90	129 43.10	83 1 21 0	162.6		X		X	GLDL		
ALICE ARM	HA 2	55 28.30	129 44.60	83 1 15 11	296.8		X		X	GLDL		
ALICE ARM	HA 2	55 28.30	129 44.60	83 1 19 22	304.0		X		X	GLDL		
ALICE ARM	HA 2	55 28.30	129 44.60	83 1 20 23	286.0		X		X	GLDL		
ALICE ARM	HA 3	55 32.50	129 47.10	83 1 15 12	272.4		X		X	GLDL		
ALICE ARM	HA 3	55 32.50	129 47.10	83 1 20 22	272.3		X		X	GLDL		
ALICE ARM	HA 4	55 36.50	129 47.80	83 1 15 13	173.6		X		X	GLDL		
ALICE ARM	HA 4	55 36.50	129 47.80	83 1 20 22	158.7		X		X	GLDL		
ALICE ARM	I 6	55 27.50	129 29.33	83 1 20 5	87.0		X		X	GLDL		
ALICE ARM	I 8	55 27.50	129 29.73	83 1 20 5	77.0		X		X	GLDL		
ALICE ARM	K 40	55 27.30	129 35.36	83 1 20 0	251.7		X		X	GLDL		
ALICE ARM	K 6	55 27.30	129 29.33	83 1 20 5	88.8		X		X	GLDL		
ALICE ARM	K 8	55 27.30	129 29.73	83 1 20 5	98.9		X		X	GLDL		
ALICE ARM	L 10	55 27.20	129 30.08	83 1 20 5	148.0		X		X	GLDL		
ALICE ARM	M 12	55 27.10	129 30.43	83 1 20 4	173.6		X		X	GLDL		
ALICE ARM	M 40	55 27.10	129 35.36	83 1 20 0	380.2		X		X	GLDL		

ALICE ARM	M 9	55	27.10	129	29.90	83	1	20	4	127.0		X		X	GLDL		
ALICE ARM	N 11	55	27.00	129	30.26	83	1	20	4	149.6		X		X	GLDL		
ALICE ARM	N 14	55	27.00	129	30.78	83	1	20	3	159.8		X		X	GLDL		
ALICE ARM	N 8	55	27.00	129	29.73	83	1	20	4	68.9		X		X	GLDL		
ALICE ARM	O 10	55	26.90	129	30.08	83	1	20	4	82.7		X		X	GLDL		
ALICE ARM	O 13	55	26.90	129	30.61	83	1	20	3	217.8		X		X	GLDL		
ALICE ARM	O 16	55	26.90	129	31.14	83	1	20	2	150.8		X		X	GLDL		
ALICE ARM	O 20	55	26.90	129	31.84	83	1	20	2	123.3		X		X	GLDL		
ALICE ARM	OB 1	55	3.00	130	0.15	83	1	15	5	19.3		X		X	GLDL		
ALICE ARM	OB 1	55	3.00	130	0.15	83	1	21	5	62.3		X		X	GLDL		
ALICE ARM	OB 2	55	6.70	129	57.30	83	1	15	6	407.3		X		X	GLDL		
ALICE ARM	OB 2	55	6.70	129	57.30	83	1	21	4	403.1		X		X	GLDL		
ALICE ARM	OB 3	55	10.00	129	53.00	83	1	15	8	449.9		X		X	GLDL		
ALICE ARM	OB 3	55	10.00	129	53.00	83	1	21	4	442.9		X		X	GLDL		
ALICE ARM	OB 4	55	13.90	129	51.10	83	1	15	8	486.3		X		X	GLDL		
ALICE ARM	OB 4	55	13.90	129	51.10	83	1	21	3	486.4		X		X	GLDL		
ALICE ARM	OB 5	55	17.50	129	47.90	83	1	15	9	488.2		X		X	GLDL		
ALICE ARM	OB 5	55	17.50	129	47.90	83	1	19	20	496.6		X		X	GLDL		
ALICE ARM	OB 5	55	17.50	129	47.90	83	1	21	2	496.3		X		X	GLDL		
ALICE ARM	OB 6	55	21.30	129	45.90	83	1	15	10	228.6		X		X	GLDL		
ALICE ARM	OB 6	55	21.30	129	45.90	83	1	21	1	226.5		X		X	GLDL		
ALICE ARM	P 12	55	26.80	129	30.43	83	1	20	3	135.0		X		X	GLDL		
ALICE ARM	P 40	55	26.80	129	35.36	83	1	20	1	301.0		X		X	GLDL		
ALICE ARM	PI 1	54	40.60	123	28.20	83	1	15	0	495.2		X		X	GLDL		
ALICE ARM	PI 1	54	40.60	123	28.20	83	1	21	11	493.6		X		X	GLDL		
ALICE ARM	PI 2	54	43.80	130	24.30	83	1	15	1	495.1		X		X	GLDL		
ALICE ARM	PI 2	54	43.80	130	24.30	83	1	21	10	416.0		X		X	GLDL		
ALICE ARM	PI 3	54	46.70	130	19.70	83	1	15	2	478.2		X		X	GLDL		
ALICE ARM	PI 3	54	46.70	130	19.70	83	1	21	9	456.4		X		X	GLDL		
ALICE ARM	PI 4	54	49.60	130	14.90	83	1	15	3	421.7		X		X	GLDL		
ALICE ARM	PI 4	54	49.60	130	14.90	83	1	21	8	405.2		X		X	GLDL		
ALICE ARM	PI 5	54	52.85	130	10.90	83	1	15	3	405.2		X		X	GLDL		
ALICE ARM	PI 5	54	52.85	130	10.90	83	1	21	8	399.3		X		X	GLDL		
ALICE ARM	PI 6	54	56.10	130	6.90	83	1	15	4	325.9		X		X	GLDL		
ALICE ARM	PI 6	54	56.10	130	6.90	83	1	21	7	317.8		X		X	GLDL		
ALICE ARM	PI 7	54	59.30	130	2.80	83	1	15	5	210.3		X		X	GLDL		
ALICE ARM	PI 7	54	59.30	130	2.80	83	1	21	6	208.7		X		X	GLDL		
ALICE ARM	Q 16	55	26.70	129	31.14	83	1	20	2	249.7		X		X	GLDL		
ALICE ARM	Q 20	55	26.70	129	31.84	83	1	20	1	255.0		X		X	GLDL		
ALICE ARM	S 16	55	26.50	129	31.14	83	1	20	3	123.7		X		X	GLDL		
ALICE ARM	S 20	55	26.50	129	31.84	83	1	20	1	179.0		X		X	GLDL		
ALICE ARM	U 67	55	26.30	129	40.11	83	1	19	23	234.1		X		X	GLDL		
ALICE ARM	V 66	55	26.20	129	39.94	83	1	19	23	211.5		X		X	GLDL		
ALICE ARM	W 65	55	26.10	129	39.76	83	1	19	23	138.6		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 83-0015
YEAR:1983 VESSEL/AGENCY: IOS,VECTOR

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
ALICE ARM	AA 1	55	24.75	129	40.75	83	4	13	19	83.3		X		X	GLDL		
ALICE ARM	AA 2	55	26.00	129	40.05	83	4	13	18	220.0		X		X	GLDL		
ALICE ARM	AA 3	55	27.15	129	37.05	83	4	13	17	371.8		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	13	16	265.0		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	17	16	262.7		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	17	16	256.1		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	17	17	271.9		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	17	17	274.9		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	17	18	257.8		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	17	18	261.8		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	17	18	271.1		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	17	19	276.5		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	17	20	265.7		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	17	20	276.6		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	17	21	276.1		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	17	21	271.7		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	17	22	254.6		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	17	22	255.7		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	17	23	256.0		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	17	23	256.0		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	0	254.7		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	0	255.0		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	0	261.7		X		X	GLDL		
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	1	250.9		X		X	GLDL		

ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	2	253.0	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	2	253.9	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	3	260.5	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	3	257.5	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	4	276.2	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	4	251.1	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	5	232.1	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	5	260.1	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	6	248.7	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	6	264.6	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	7	269.0	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	7	260.6	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	8	258.6	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	8	264.0	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	9	259.1	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	9	268.1	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	10	257.8	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	10	256.7	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	11	254.5	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	11	254.0	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	12	255.0	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	12	254.0	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	13	255.7	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	13	257.9	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	13	252.8	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	14	257.6	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	14	258.9	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	15	256.5	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	16	255.5	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	16	240.0	X	X	GLDL
ALICE ARM	AA 4	55	26.69	129	31.80	83	4	18	16	234.6	X	X	GLDL
ALICE ARM	C 3	55	28.10	129	28.85	83	4	17	5	66.5	X	X	GLDL
ALICE ARM	C 6	55	28.10	129	29.33	83	4	17	5	80.5	X	X	GLDL
ALICE ARM	E 3	55	27.90	129	28.81	83	4	17	4	84.6	X	X	GLDL
ALICE ARM	E 5	55	27.90	129	29.18	83	4	17	4	84.9	X	X	GLDL
ALICE ARM	E 7	55	27.90	129	29.53	83	4	17	5	88.0	X	X	GLDL
ALICE ARM	G 4	55	27.70	129	29.00	83	4	17	4	83.6	X	X	GLDL
ALICE ARM	G 6	55	27.70	129	29.33	83	4	17	4	85.7	X	X	GLDL
ALICE ARM	G 8	55	27.70	129	29.73	83	4	17	4	89.8	X	X	GLDL
ALICE ARM	HA 1	55	24.90	129	43.10	83	4	13	23	137.6	X	X	GLDL
ALICE ARM	HA 2	55	28.30	129	44.60	83	4	13	22	275.9	X	X	GLDL
ALICE ARM	HA 2	55	28.30	129	44.60	83	4	16	16	301.0	X	X	GLDL
ALICE ARM	HA 3	55	32.50	129	47.10	83	4	13	21	288.8	X	X	GLDL
ALICE ARM	HA 4	55	36.50	129	47.80	83	4	13	21	169.5	X	X	GLDL
ALICE ARM	I 6	55	27.50	129	29.33	83	4	17	4	75.5	X	X	GLDL
ALICE ARM	I 8	55	27.50	129	29.73	83	4	17	4	92.6	X	X	GLDL
ALICE ARM	K 40	55	27.30	129	35.36	83	4	16	21	231.7	X	X	GLDL
ALICE ARM	K 6	55	27.30	129	29.33	83	4	17	3	89.6	X	X	GLDL
ALICE ARM	K 8	55	27.30	129	29.73	83	4	17	3	84.5	X	X	GLDL
ALICE ARM	L 10	55	27.20	129	30.08	83	4	17	3	92.6	X	X	GLDL
ALICE ARM	M 12	55	27.10	129	30.43	83	4	17	2	106.5	X	X	GLDL
ALICE ARM	M 40	55	27.10	129	35.36	83	4	16	21	370.1	X	X	GLDL
ALICE ARM	M 9	55	27.10	129	29.90	83	4	17	3	103.6	X	X	GLDL
ALICE ARM	N 11	55	27.00	129	30.26	83	4	17	2	158.9	X	X	GLDL
ALICE ARM	N 14	55	27.00	129	30.78	83	4	17	1	110.6	X	X	GLDL
ALICE ARM	N 8	55	27.00	129	29.73	83	4	17	3	77.0	X	X	GLDL
ALICE ARM	O 10	55	26.90	129	30.08	83	4	17	2	88.8	X	X	GLDL
ALICE ARM	O 13	55	26.90	129	30.61	83	4	17	1	172.7	X	X	GLDL
ALICE ARM	O 16	55	26.90	129	31.14	83	4	17	0	92.7	X	X	GLDL
ALICE ARM	O 20	55	26.90	129	31.84	83	4	16	22	97.9	X	X	GLDL
ALICE ARM	OB 1	55	3.00	130	0.15	83	4	14	6	65.1	X	X	GLDL
ALICE ARM	OB 2	55	6.70	129	57.30	83	4	14	4	412.9	X	X	GLDL
ALICE ARM	OB 3	55	10.00	129	53.00	83	4	14	3	454.8	X	X	GLDL
ALICE ARM	OB 4	55	13.90	129	51.10	83	4	14	2	475.0	X	X	GLDL
ALICE ARM	OB 5	55	17.50	129	47.90	83	4	14	1	491.5	X	X	GLDL
ALICE ARM	OB 5	55	17.50	129	47.90	83	4	16	18	490.6	X	X	GLDL
ALICE ARM	OB 6	55	21.30	129	45.90	83	4	14	0	144.0	X	X	GLDL
ALICE ARM	P 12	55	26.80	129	30.43	83	4	17	1	158.6	X	X	GLDL
ALICE ARM	P 40	55	26.80	129	35.36	83	4	16	22	221.0	X	X	GLDL
ALICE ARM	PI 1	54	40.60	123	28.20	83	4	14	13	422.1	X	X	GLDL
ALICE ARM	PI 2	54	43.80	130	24.30	83	4	14	12	490.2	X	X	GLDL
ALICE ARM	PI 3	54	46.70	130	19.70	83	4	14	11	490.6	X	X	GLDL
ALICE ARM	PI 4	54	49.60	130	14.90	83	4	14	10	430.1	X	X	GLDL
ALICE ARM	PI 5	54	52.85	130	10.90	83	4	14	9	421.5	X	X	GLDL
ALICE ARM	PI 6	54	56.10	130	6.90	83	4	14	8	331.0	X	X	GLDL
ALICE ARM	PI 7	54	59.30	130	2.80	83	4	14	7	212.9	X	X	GLDL
ALICE ARM	Q 16	55	26.70	129	31.14	83	4	17	0	231.9	X	X	GLDL
ALICE ARM	Q 20	55	26.70	129	31.84	83	4	16	23	240.5	X	X	GLDL
ALICE ARM	S 16	55	26.50	129	31.14	83	4	17	0	190.8	X	X	GLDL
ALICE ARM	S 20	55	26.50	129	31.84	83	4	16	23	266.9	X	X	GLLL
ALICE ARM	U 67	55	26.30	129	40.11	83	4	16	19	217.9	X	X	GLDL
ALICE ARM	V 66	55	26.20	129	39.94	83	4	16	20	167.1	X	X	GLDL
ALICE ARM	W 65	55	26.10	129	39.76	83	4	16	20	113.6	X	X	GLDL

BOTTLE/CTD DATA SET NUMBER: 83-0035
YEAR:1983 VESSEL/AGENCY: IOS

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO (M)	DEPTH (M)	MEAS C	S	T		HR	
Q. CHARLOTTES	M 1	52	22.1	131	5.3	83	5	13	22			X		X	GLDL		
HECATE STRAIT	M 1	52	37.7	129	33.7	83	5	14	8			X		X	GLDL		
HECATE STRAIT	M 2	52	37.0	129	37.8	83	5	14	7			X		X	GLDL		
HECATE STRAIT	M 3	52	35.4	129	47.3	83	5	14	6			X		X	GLDL		
HECATE STRAIT	M 4	52	33.9	129	56.6	83	5	14	5			X		X	GLDL		
HECATE STRAIT	M 5	52	32.7	130	4.0	83	5	14	5			X		X	GLDL		
HECATE STRAIT	M 6	52	31.5	130	10.8	83	5	14	4			X		X	GLDL		
HECATE STRAIT	M 7	52	30.0	130	20.0	83	5	14	3			X		X	GLDL		
HECATE STRAIT	M 8	52	28.4	130	29.0	83	5	14	2			X		X	GLDL		
HECATE STRAIT	M 9	52	26.9	130	38.0	83	5	14	1			X		X	GLDL		
HECATE STRAIT	M10	52	25.5	130	46.8	83	5	14	0			X		X	GLDL		
HECATE STRAIT	M11	52	24.0	130	56.3	83	5	13	23			X		X	GLDL		
DIXON ENTRANCE	Q27	54	18.5	132	48.8	83	5	7	23			X		X	GLDL		
Q. CHARLOTTES	Q28	54	19.0	133	3.2	83	5	8	1			X		X	GLDL		
Q. CHARLOTTES	Q28	54	19.0	133	3.2	83	5	8	1			X		X	GLDL		
Q. CHARLOTTES	Q36	54	31.1	133	13.0	83	5	8	8			X		X	GLDL		
DIXON ENTRANCE	Q37	54	34.5	132	56.5	83	5	8	9			X		X	GLDL		
DIXON ENTRANCE	Q38	54	29.0	132	59.0	83	5	8	10			X		X	GLDL		
Q. CHARLOTTES	Q39	54	23.2	133	1.5	83	5	8	11			X		X	GLDL		
DIXON ENTRANCE	Q40	54	17.7	132	33.5	83	5	8	13			X		X	GLDL		
DIXON ENTRANCE	Q41	54	10.0	132	18.0	83	5	8	14			X		X	GLDL		
DIXON ENTRANCE	Q42	54	17.0	132	18.0	83	5	8	15			X		X	GLDL		
DIXON ENTRANCE	Q42	54	17.0	132	18.0	83	5	8	15			X		X	GLDL		
DIXON ENTRANCE	Q43	54	21.3	132	18.0	83	5	8	16			X		X	GLDL		
DIXON ENTRANCE	Q44	54	25.5	132	18.0	83	5	8	17			X		X	GLDL		
DIXON ENTRANCE	Q45	54	34.0	132	18.0	83	5	8	18			X		X	GLDL		
DIXON ENTRANCE	Q46	54	34.2	132	31.3	83	5	8	19			X		X	GLDL		
DIXON ENTRANCE	Q47	54	29.4	132	32.0	83	5	8	20			X		X	GLDL		
DIXON ENTRANCE	Q48	54	24.0	132	32.6	83	5	8	21			X		X	GLDL		
DIXON ENTRANCE	Q49	54	24.2	132	46.5	83	5	8	21			X		X	GLDL		
DIXON ENTRANCE	Q50	54	29.5	132	44.8	83	5	8	22			X		X	GLDL		
DIXON ENTRANCE	Q51	54	34.3	132	43.5	83	5	8	23			X		X	GLDL		
DIXON ENTRANCE	Q52	54	38.4	132	42.6	83	5	9	0			X		X	GLDL		
DIXON ENTRANCE	Q53	54	38.4	132	31.0	83	5	9	0			X		X	GLDL		
DIXON ENTRANCE	Q54	54	38.4	132	18.8	83	5	9	1			X		X	GLDL		
DIXON ENTRANCE	Q55	54	38.4	132	6.5	83	5	9	2			X		X	GLDL		
DIXON ENTRANCE	Q56	54	34.3	132	6.5	83	5	9	3			X		X	GLDL		
DIXON ENTRANCE	Q57	54	28.8	132	6.5	83	5	9	4			X		X	GLDL		
DIXON ENTRANCE	Q58	54	23.3	132	6.5	83	5	9	4			X		X	GLDL		
DIXON ENTRANCE	Q59	54	23.3	132	6.5	83	5	9	5			X		X	GLDL		
DIXON ENTRANCE	Q60	54	10.2	132	6.5	83	5	9	6			X		X	GLDL		
HECATE STRAIT	R 1	53	56.0	130	53.3	83	5	11	4			X		X	GLDL		
HECATE STRAIT	R 2	53	56.0	130	57.9	83	5	11	4			X		X	GLDL		
HECATE STRAIT	R 3	53	56.0	130	64.0	83	5	11	3			X		X	GLDL		
HECATE STRAIT	R 6	53	56.0	131	23.0	83	5	11	0			X		X	GLDL		
HECATE STRAIT	R 7	53	56.0	131	31.5	83	5	11	0			X		X	GLDL		
HECATE STRAIT	W 1	53	20.0	130	13.8	83	5	16	0			X		X	GLDL		
HECATE STRAIT	W 2	53	19.9	130	19.3	83	5	16	1			X		X	GLDL		
HECATE STRAIT	W 3	53	18.3	130	24.0	83	5	16	2			X		X	GLDL		
HECATE STRAIT	W 4	53	17.3	130	29.6	83	5	16	2			X		X	GLDL		
HECATE STRAIT	W 5	53	16.5	130	34.0	83	5	16	3			X		X	GLDL		
HECATE STRAIT	W 6	53	16.3	130	37.4	83	5	16	3			X		X	GLDL		
HECATE STRAIT	W 7	53	15.5	130	41.0	83	5	12	9			X		X	GLDL		
HECATE STRAIT	W 7	53	15.5	130	41.0	83	5	16	4			X		X	GLDL		
HECATE STRAIT	W 8	53	14.9	130	45.3	83	5	16	5			X		X	GLDL		
HECATE STRAIT	W 9	53	13.9	130	51.2	83	5	16	5			X		X	GLDL		
HECATE STRAIT	W10	53	13.0	130	56.0	83	5	15	11			X		X	GLDL		
HECATE STRAIT	W10	53	13.0	130	56.0	83	5	15	17			X		X	GLDL		
HECATE STRAIT	W10	53	13.0	130	56.0	83	5	15	19			X		X	GLDL		
HECATE STRAIT	W10	53	13.0	130	56.0	83	5	15	22			X		X	GLDL		
HECATE STRAIT	W10	53	13.0	130	56.8	83	5	15	3			X		X	GLDL		
HECATE STRAIT	W10	53	13.0	130	56.8	83	5	15	6			X		X	GLDL		
HECATE STRAIT	W10	53	13.0	130	56.9	83	5	16	6			X		X	GLDL		
HECATE STRAIT	W10	53	14.9	130	45.3	83	5	12	9			X		X	GLDL		
HECATE STRAIT	W11	53	12.0	131	2.0	83	5	15	18			X		X	GLDL		
HECATE STRAIT	W11	53	12.0	131	2.8	83	5	15	20			X		X	GLDL		
HECATE STRAIT	W11	53	12.1	131	2.8	83	5	15	3			X		X	GLDL		
HECATE STRAIT	W11	53	12.1	131	2.8	83	5	15	6			X		X	GLDL		
HECATE STRAIT	W11	53	12.1	131	2.8	83	5	15	9			X		X	GLDL		
HECATE STRAIT	W11	53	12.1	131	2.8	83	5	16	6			X		X	GLDL		
HECATE STRAIT	W11	53	13.9	130	51.1	83	5	12	10			X		X	GLDL		

HECATE STRAIT	W12	53	11.0	131	9.0	83	5	16	12			X		X	GLDL		
HECATE STRAIT	W12	53	11.0	131	9.0	83	5	16	14			X		X	GLDL		
HECATE STRAIT	W12	53	11.0	131	9.0	83	5	16	19			X		X	GLDL		
HECATE STRAIT	W12	53	11.0	131	9.4	83	5	15	2			X		X	GLDL		
HECATE STRAIT	W12	53	11.0	131	9.4	83	5	15	5			X		X	GLDL		
HECATE STRAIT	W12	53	11.0	131	9.4	83	5	15	8			X		X	GLDL		
HECATE STRAIT	W12	53	11.0	131	9.4	83	5	16	7			X		X	GLDL		
HECATE STRAIT	W12	53	11.0	131	9.4	83	5	16	21			X		X	GLDL		
HECATE STRAIT	W12	53	12.9	130	56.9	83	5	12	11			X		X	GLDL		
HECATE STRAIT	W13	53	10.0	131	15.0	83	5	16	11			X		X	GLDL		
HECATE STRAIT	W13	53	10.0	131	15.0	83	5	16	13			X		X	GLDL		
HECATE STRAIT	W13	53	10.0	131	15.0	83	5	16	15			X		X	GLDL		
HECATE STRAIT	W13	53	10.0	131	15.0	83	5	16	18			X		X	GLDL		
HECATE STRAIT	W13	53	10.0	131	15.0	83	5	16	20			X		X	GLDL		
HECATE STRAIT	W13	53	10.5	131	15.2	83	5	15	2			X		X	GLDL		
HECATE STRAIT	W13	53	10.5	131	15.2	83	5	15	5			X		X	GLDL		
HECATE STRAIT	W13	53	10.5	131	15.2	83	5	15	8			X		X	GLDL		
HECATE STRAIT	W13	53	10.5	131	15.2	83	5	16	7			X		X	GLDL		
HECATE STRAIT	W13	53	12.0	131	2.7	83	5	12	11			X		X	GLDL		
HECATE STRAIT	W14	53	9.0	131	21.5	83	5	16	8			X		X	GLDL		
HECATE STRAIT	W14	53	11.0	131	9.4	83	5	12	12			X		X	GLDL		
HECATE STRAIT	W15	53	8.3	131	26.6	83	5	12	13			X		X	GLDL		
HECATE STRAIT	W15	53	8.3	131	26.6	83	5	16	8			X		X	GLDL		
HECATE STRAIT	W15	53	10.0	131	15.9	83	5	12	13			X		X	GLDL		
HECATE STRAIT	W16	53	7.0	131	33.5	83	5	12	14			X		X	GLDL		
HECATE STRAIT	W16	53	7.0	131	33.5	83	5	16	9			X		X	GLDL		
HECATE STRAIT	W16	53	9.0	131	21.5	83	5	12	13			X		X	GLDL		
HECATE STRAIT	W17	53	2.4	131	31.0	83	5	16	10			X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 83-0036A
YEAR:1983 VESSEL/AGENCY: IOS

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
HECATE STRAIT	BUOY	52	5.0	130	35.0	83	9	8	12			X		X	GLDL		
Q. CHARLOTTES	C 1	51	34.0	128	54.7	83	9	8	3			X		X	GLDL		
Q. CHARLOTTES	C 3	51	31.3	128	54.7	83	9	8	2			X		X	GLDL		
Q. CHARLOTTES	C 5	51	28.0	128	54.7	83	9	8	2			X		X	GLDL		
Q. CHARLOTTES	C 7	51	24.7	128	54.7	83	9	8	2			X		X	GLDL		
Q. CHARLOTTES	C 9	51	21.1	128	54.7	83	9	8	1			X		X	GLDL		
Q. CHARLOTTES	C11	51	15.0	128	52.0	83	9	8	0			X		X	GLDL		
Q. CHARLOTTES	C13	51	10.0	128	49.0	83	9	8	0			X		X	GLDL		
Q. CHARLOTTES	M 2	51	35.6	129	10.0	83	9	8	4			X		X	GLDL		
Q. CHARLOTTES	M 4	51	40.2	129	23.2	83	9	8	5			X		X	GLDL		
Q. CHARLOTTES	M 6	51	46.2	129	30.0	83	9	8	6			X		X	GLDL		
Q. CHARLOTTES	M 8	51	50.7	129	34.0	83	9	8	6			X		X	GLDL		
Q. CHARLOTTES	M10	51	55.5	129	42.6	83	9	8	7			X		X	GLDL		
Q. CHARLOTTES	M12	51	57.6	129	54.9	83	9	8	8			X		X	GLDL		
Q. CHARLOTTES	M14	51	57.6	130	10.8	83	9	8	9			X		X	GLDL		
Q. CHARLOTTES	M15	51	57.8	130	18.5	83	9	8	10			X		X	GLDL		
Q. CHARLOTTES	M16	51	57.6	130	35.0	83	9	8	11			X		X	GLDL		
Q. CHARLOTTES	M16A	51	57.6	130	47.0	83	9	8	13			X		X	GLDL		
Q. CHARLOTTES	M17	51	57.5	130	50.5	83	9	8	14			X		X	GLDL		
Q. CHARLOTTES	M18	51	57.6	130	55.5	83	9	8	14			X		X	GLDL		
Q. CHARLOTTES	M19	51	57.6	130	58.6	83	9	8	14			X		X	GLDL		
DIXON ENTRANCE	Q27	54	18.5	132	48.8	83	9	16	20			X		X	GLDL		
Q. CHARLOTTES	Q28	54	19.0	133	3.2	83	9	16	14			X		X	GLDL		
Q. CHARLOTTES	Q36	54	31.1	133	13.0	83	9	16	11			X		X	GLDL		
DIXON ENTRANCE	Q37	54	34.5	132	56.5	83	9	16	12			X		X	GLDL		
DIXON ENTRANCE	Q38	54	29.0	132	59.2	83	9	16	13			X		X	GLDL		
Q. CHARLOTTES	Q39	54	23.2	133	1.5	83	9	16	14			X		X	GLDL		
DIXON ENTRANCE	Q41	54	10.0	132	18.0	83	9	17	6			X		X	GLDL		
DIXON ENTRANCE	Q42	54	17.0	132	18.0	83	9	17	5			X		X	GLDL		
DIXON ENTRANCE	Q43	54	21.3	132	18.0	83	9	17	4			X		X	GLDL		
DIXON ENTRANCE	Q44	54	25.5	132	18.0	83	9	17	3			X		X	GLDL		
DIXON ENTRANCE	Q45	54	34.0	132	18.0	83	9	17	2			X		X	GLDL		
DIXON ENTRANCE	Q49	54	24.2	132	46.5	83	9	16	21			X		X	GLDL		
DIXON ENTRANCE	Q50	54	29.5	132	44.8	83	9	16	22			X		X	GLDL		
DIXON ENTRANCE	Q51	54	34.3	132	43.5	83	9	16	23			X		X	GLDL		
DIXON ENTRANCE	Q52	54	38.4	132	43.6	83	9	17	0			X		X	GLDL		
DIXON ENTRANCE	Q53	54	38.4	132	31.0	83	9	17	1			X		X	GLDL		
DIXON ENTRANCE	Q54	54	38.4	132	18.0	83	9	17	1			X		X	GLDL		
DIXON ENTRANCE	Q60	54	10.0	132	6.0	83	9	17	7			X		X	GLDL		
DIXON ENTRANCE	Q61	54	22.0	131	19.0	83	9	17	10			X		X	GLDL		

DIXON ENTRANCE	Q62	54	15.3	131	46.0	83	9	17	8			X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 83-0036B
YEAR:1983 VESSEL/AGENCY: IOS

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
HECATE STRAIT	M 1	52	37.7	129	33.6	83	9	24	8			X		X	GLDL		
HECATE STRAIT	M 1	52	37.7	129	33.6	83	9	26	19			X		X	GLDL		
HECATE STRAIT	M 2	52	36.9	129	37.9	83	9	24	8			X		X	GLDL		
HECATE STRAIT	M 3	52	35.4	129	47.3	83	9	24	7			X		X	GLDL		
HECATE STRAIT	M 4	52	33.8	129	56.6	83	9	24	6			X		X	GLDL		
HECATE STRAIT	M 5	52	32.6	130	3.8	83	9	24	5			X		X	GLDL		
HECATE STRAIT	M 6	52	31.4	130	11.0	83	9	24	4			X		X	GLDL		
HECATE STRAIT	M 7	52	30.0	130	20.0	83	9	24	4			X		X	GLDL		
HECATE STRAIT	M 8	52	28.5	130	29.0	83	9	24	3			X		X	GLDL		
HECATE STRAIT	M 9	52	26.9	130	38.2	83	9	24	2			X		X	GLDL		
HECATE STRAIT	M10	52	25.5	130	47.0	83	9	24	1			X		X	GLDL		
HECATE STRAIT	M11	52	24.0	130	56.0	83	9	24	1			X		X	GLDL		
Q. CHARLOTTES	M12	52	22.4	131	6.0	83	9	24	0			X		X	GLDL		
HECATE STRAIT	MB	52	38.5	129	15.6	83	9	26	17			X		X	GLDL		
HECATE STRAIT	MO	52	38.5	129	20.6	83	9	26	18			X		X	GLDL		
HECATE STRAIT	R 1	53	56.0	130	53.5	83	9	19	19			X		X	GLDL		
HECATE STRAIT	R 2	53	56.0	130	57.9	83	9	19	18			X		X	GLDL		
HECATE STRAIT	R 3	53	56.0	131	3.0	83	9	19	18			X		X	GLDL		
HECATE STRAIT	R 4	53	56.0	131	8.5	83	9	19	17			X		X	GLDL		
HECATE STRAIT	R 5	53	56.0	131	15.0	83	9	19	16			X		X	GLDL		
HECATE STRAIT	R 6	53	56.0	131	23.0	83	9	19	16			X		X	GLDL		
HECATE STRAIT	R 7	53	56.0	131	31.5	83	9	19	15			X		X	GLDL		
HECATE STRAIT	W 1	53	19.8	130	13.7	83	9	20	11			X		X	GLDL		
HECATE STRAIT	W 1	53	19.8	130	13.7	83	9	22	22			X		X	GLDL		
HECATE STRAIT	W 2	53	19.2	130	18.1	83	9	20	11			X		X	GLDL		
HECATE STRAIT	W 2	53	19.2	130	18.1	83	9	22	23			X		X	GLDL		
HECATE STRAIT	W 3	53	18.2	130	23.7	83	9	20	10			X		X	GLDL		
HECATE STRAIT	W 3	53	18.2	130	23.7	83	9	22	23			X		X	GLDL		
HECATE STRAIT	W 4	53	17.3	130	29.5	83	9	20	10			X		X	GLDL		
HECATE STRAIT	W 4	53	17.3	130	29.5	83	9	23	0			X		X	GLDL		
HECATE STRAIT	W 5	53	16.7	130	34.0	83	9	20	9			X		X	GLDL		
HECATE STRAIT	W 5	53	16.7	130	34.0	83	9	23	1			X		X	GLDL		
HECATE STRAIT	W 6	53	16.0	130	37.5	83	9	20	9			X		X	GLDL		
HECATE STRAIT	W 6	53	16.0	130	37.5	83	9	23	1			X		X	GLDL		
HECATE STRAIT	W 7	53	15.5	130	41.0	83	9	20	8			X		X	GLDL		
HECATE STRAIT	W 7	53	15.5	130	41.0	83	9	23	1			X		X	GLDL		
HECATE STRAIT	W 8	53	14.9	130	45.0	83	9	20	7			X		X	GLDL		
HECATE STRAIT	W 8	53	14.9	130	45.0	83	9	23	2			X		X	GLDL		
HECATE STRAIT	W 9	53	13.8	130	51.0	83	9	20	7			X		X	GLDL		
HECATE STRAIT	W 9	53	13.8	130	51.0	83	9	23	2			X		X	GLDL		
HECATE STRAIT	W10	53	13.0	130	56.5	83	9	20	6			X		X	GLDL		
HECATE STRAIT	W10	53	13.0	130	56.5	83	9	23	3			X		X	GLDL		
HECATE STRAIT	W11	53	12.0	131	2.7	83	9	20	6			X		X	GLDL		
HECATE STRAIT	W11	53	12.0	131	2.7	83	9	23	4			X		X	GLDL		
HECATE STRAIT	W12	53	11.0	131	9.5	83	9	20	5			X		X	GLDL		
HECATE STRAIT	W12	53	11.0	131	9.5	83	9	23	4			X		X	GLDL		
HECATE STRAIT	W13	53	10.0	131	16.0	83	9	20	5			X		X	GLDL		
HECATE STRAIT	W13	53	10.0	131	16.0	83	9	23	5			X		X	GLDL		
HECATE STRAIT	W14	53	9.2	131	21.5	83	9	20	4			X		X	GLDL		
HECATE STRAIT	W14	53	9.2	131	21.5	83	9	23	5			X		X	GLDL		
HECATE STRAIT	W15	53	8.2	131	26.5	83	9	20	3			X		X	GLDL		
HECATE STRAIT	W15	53	8.2	131	26.5	83	9	23	6			X		X	GLDL		
HECATE STRAIT	W16	53	7.2	131	33.6	83	9	20	3			X		X	GLDL		
HECATE STRAIT	W16	53	7.2	131	33.6	83	9	23	6			X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 83-0038
YEAR:1983 VESSEL/AGENCY: EPS

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
PORPOISE HBR	B-10	54	13.19	130	17.60	83	04	22	18			X		X	PLES		
PORPOISE HBR	B-10	54	13.19	130	17.60	83	04	22	18			X		X	PLES		
PORPOISE HBR	P-12	54	13.22	130	17.63	83	04	22	18			X		X	PLES		
PORPOISE HBR	P-18	54	14.25	130	18.40	83	04	22	19			X		X	PLES		
PORPOISE HBR	P-20	54	12.10	130	18.30	83	04	22	19			X		X	PLES		
PORPOISE HBR	PH-1	54	14.55	130	18.34	83	04	22	19			X		X	PLES		
PORPOISE HBR	PH-2	54	12.51	130	17.72	83	04	22	19			X		X	PLES		
PORPOISE HBR	PH-3	54	13.90	130	18.05	83	04	22	19			X		X	PLES		

BOTTLE/CTD DATA SET NUMBER: 83-0039
YEAR:1983 VESSEL/AGENCY: EPS

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
ALICE ARM	E-5	55	27.9	129	29.2	83	10	5	23			X		X	PLES		
ALICE ARM	H-1	55	36.8	129	48.00	83	10	6	23			X		X	PLES		
ALICE ARM	M-9	55	27.1	129	29.9	83	10	6	15			X		X	PLES		
ALICE ARM	N-9	55	27.1	129	29.9	83	10	6	16			X		X	PLES		
ALICE ARM	M-9	55	27.1	129	29.92	83	10	7	3			X		X	PLES		
ALICE ARM	N-8	55	27.0	129	29.7	83	10	6	17			X		X	PLES		
ALICE ARM	L-10	55	27.2	129	30.0	83	10	6	16			X		X	PLES		
ALICE ARM	M-40	55	27.1	129	35.36	83	10	6	19			X		X	PLES		
ALICE ARM	O-20	55	26.9	129	31.8	83	10	6	18			X		X	PLES		
OBSERVATORY IN	OI-2	55	17.5	129	47.2	83	10	5	20			X		X	PLES		
OBSERVATORY IN	OI-3	55	10.0	129	53.0	83	10	5	19			X		X	PLES		
OBSERVATORY IN	OI-4	55	04.8	129	59.2	83	10	5	18			X		X	PLES		
OBSERVATORY IN	OI-5	54	59.6	130	02.2	83	10	5	17			X		X	PLES		
ALICE ARM	Q-20	55	26.7	129	31.8	83	10	6	17			X		X	PLES		
ALICE ARM	S-20	55	26.5	129	31.78	83	10	6	18			X		X	PLES		
ALICE ARM	T-64	55	26.4	129	39.55	83	10	6	20			X		X	PLES		
ALICE ARM	KI-70	55	24.7	129	40.60	83	10	6	20			X		X	PLES		

BOTTLE/CTD DATA SET NUMBER: 84-0001
YEAR:1984 VESSEL/AGENCY: IOS,PARIZEAU

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
Q. CHARLOTTES	C 1	51	34.2	128	55.0	84	1	11	19			X		X	GLDL		
Q. CHARLOTTES	C 3	51	31.2	128	55.0	84	1	12	7			X		X	GLDL		
Q. CHARLOTTES	C 5	51	28.0	128	55.0	84	1	12	6			X		X	GLDL		
Q. CHARLOTTES	C 7	51	24.7	128	54.7	84	1	12	6			X		X	GLDL		
Q. CHARLOTTES	C 9	51	21.2	128	55.0	84	1	12	5			X		X	GLDL		
Q. CHARLOTTES	C11	51	15.7	128	52.3	84	1	12	4			X		X	GLDL		
Q. CHARLOTTES	C13	51	10.3	128	49.0	84	1	12	4			X		X	GLDL		
DIXON ENTRANCE	D 0	54	27.7	132	0.0	84	1	20	6			X		X	GLDL		
DIXON ENTRANCE	D 0	54	27.7	132	0.0	84	1	20	15			X		X	GLDL		
DIXON ENTRANCE	D 0	54	27.7	132	0.0	84	1	20	21			X		X	GLDL		
DIXON ENTRANCE	D 0	54	27.7	132	0.0	84	1	21	5			X		X	GLDL		
DIXON ENTRANCE	D1E	54	27.7	131	51.4	84	1	20	5			X		X	GLDL		
DIXON ENTRANCE	D1N	54	32.8	132	0.0	84	1	20	20			X		X	GLDL		
DIXON ENTRANCE	D1NE	54	31.3	131	53.7	84	1	20	16			X		X	GLDL		
DIXON ENTRANCE	D1NW	54	31.3	132	6.1	84	1	21	6			X		X	GLDL		
DIXON ENTRANCE	D1S	54	22.7	132	0.0	84	1	20	22			X		X	GLDL		

DIXON ENTRANCE	D1SE	54	24.0	131	54.0	84	1	21	5	X	X	GLDL
DIXON ENTRANCE	D1SW	54	24.1	132	6.1	84	1	20	14	X	X	GLDL
DIXON ENTRANCE	D1W	54	27.7	132	8.7	84	1	20	7	X	X	GLDL
DIXON ENTRANCE	D2E	54	27.7	131	42.7	84	1	20	5	X	X	GLDL
DIXON ENTRANCE	D2N	54	37.8	132	0.0	84	1	20	20	X	X	GLDL
DIXON ENTRANCE	D2NE	54	34.7	131	47.6	84	1	20	17	X	X	GLDL
DIXON ENTRANCE	D2NW	54	34.8	132	12.3	84	1	21	7	X	X	GLDL
DIXON ENTRANCE	D2S	54	17.7	132	0.0	84	1	20	23	X	X	GLDL
DIXON ENTRANCE	D2SE	54	20.5	131	47.8	84	1	21	4	X	X	GLDL
DIXON ENTRANCE	D2SW	54	20.5	132	12.3	84	1	20	13	X	X	GLDL
DIXON ENTRANCE	D2W	54	27.7	132	17.5	84	1	20	8	X	X	GLDL
DIXON ENTRANCE	D3E	54	27.7	131	34.3	84	1	20	4	X	X	GLDL
DIXON ENTRANCE	D3N	54	40.3	132	0.0	84	1	20	19	X	X	GLDL
DIXON ENTRANCE	D3NE	54	38.4	131	41.5	84	1	20	17	X	X	GLDL
DIXON ENTRANCE	D3NW	54	38.4	132	18.4	84	1	21	8	X	X	GLDL
DIXON ENTRANCE	D3S	54	12.6	132	0.0	84	1	21	0	X	X	GLDL
DIXON ENTRANCE	D3SE	54	16.9	131	41.6	84	1	21	3	X	X	GLDL
DIXON ENTRANCE	D3SW	54	16.8	132	18.2	84	1	20	12	X	X	GLDL
DIXON ENTRANCE	D3W	54	27.7	132	26.1	84	1	20	9	X	X	GLDL
DIXON ENTRANCE	D4S	54	7.6	132	0.0	84	1	21	0	X	X	GLDL
DIXON ENTRANCE	D4SE	54	14.8	131	38.1	84	1	21	3	X	X	GLDL
DIXON ENTRANCE	D4SW	54	13.3	132	24.6	84	1	20	11	X	X	GLDL
DIXON ENTRANCE	D5S	54	4.0	132	0.0	84	1	21	1	X	X	GLDL
HECATE STRAIT	H 4	53	56.7	131	2.0	84	1	19	17	X	X	GLDL
HECATE STRAIT	H 5	53	49.5	130	50.0	84	1	19	16	X	X	GLDL
HECATE STRAIT	H 6	53	40.5	130	43.0	84	1	19	15	X	X	GLDL
HECATE STRAIT	H 7	53	32.0	130	42.5	84	1	19	14	X	X	GLDL
HECATE STRAIT	H 8	53	24.0	130	46.0	84	1	19	13	X	X	GLDL
HECATE STRAIT	H 9	53	15.5	130	41.0	84	1	19	12	X	X	GLDL
HECATE STRAIT	H10	53	9.0	130	28.0	84	1	19	11	X	X	GLDL
HECATE STRAIT	H11	53	2.2	130	15.5	84	1	19	10	X	X	GLDL
HECATE STRAIT	H12	52	55.5	130	1.0	84	1	19	9	X	X	GLDL
HECATE STRAIT	H13	52	44.5	129	58.0	84	1	19	7	X	X	GLDL
HECATE STRAIT	M 0	52	39.2	129	21.0	84	1	19	0	X	X	GLDL
Q. CHARLOTTES	M 1	51	35.5	129	2.0	84	1	11	20	X	X	GLDL
HECATE STRAIT	M 1	52	37.6	129	33.6	84	1	19	1	X	X	GLDL
HECATE STRAIT	M 2	52	36.9	129	37.9	84	1	19	1	X	X	GLDL
Q. CHARLOTTES	M 3	51	35.5	129	18.5	84	1	11	21	X	X	GLDL
HECATE STRAIT	M 3	52	35.4	129	47.1	84	1	19	2	X	X	GLDL
HECATE STRAIT	M 4	52	33.9	129	56.6	84	1	19	3	X	X	GLDL
Q. CHARLOTTES	M 5	51	41.5	129	28.2	84	1	13	1	X	X	GLDL
HECATE STRAIT	M 5	52	32.7	130	3.6	84	1	19	3	X	X	GLDL
HECATE STRAIT	M 6	52	31.4	130	10.8	84	1	19	4	X	X	GLDL
Q. CHARLOTTES	M 7	51	48.0	129	32.0	84	1	13	2	X	X	GLDL
HECATE STRAIT	M 7	52	30.0	130	19.9	84	1	19	6	X	X	GLDL
HECATE STRAIT	M 8	52	28.5	130	29.0	84	1	18	12	X	X	GLDL
Q. CHARLOTTES	M 9	51	53.0	129	38.5	84	1	13	3	X	X	GLDL
HECATE STRAIT	M 9	52	26.8	130	38.0	84	1	18	13	X	X	GLDL
HECATE STRAIT	M10	52	25.4	130	46.8	84	1	18	14	X	X	GLDL
Q. CHARLOTTES	M11	51	57.5	129	46.0	84	1	13	3	X	X	GLDL
HECATE STRAIT	M11	52	23.8	130	56.0	84	1	18	14	X	X	GLDL
Q. CHARLOTTES	M12	52	22.2	131	5.8	84	1	18	15	X	X	GLDL
Q. CHARLOTTES	M13	51	57.5	130	2.5	84	1	13	4	X	X	GLDL
Q. CHARLOTTES	M15	51	57.5	130	18.5	84	1	13	6	X	X	GLDL
Q. CHARLOTTES	M16	51	57.5	130	35.0	84	1	13	7	X	X	GLDL
Q. CHARLOTTES	M16A	51	57.5	130	42.5	84	1	13	8	X	X	GLDL
Q. CHARLOTTES	M17	51	57.5	130	50.5	84	1	13	8	X	X	GLDL
Q. CHARLOTTES	M19	51	57.5	130	58.5	84	1	13	9	X	X	GLDL
HECATE STRAIT	MB	52	39.0	129	19.5	84	1	18	23	X	X	GLDL
Q. CHARLOTTES	Q 2	51	28.7	129	27.5	84	1	11	22	X	X	GLDL
Q. CHARLOTTES	Q 4	51	19.2	129	38.0	84	1	12	12	X	X	GLDL
DIXON ENTRANCE	Q27	54	18.5	132	48.8	84	1	21	17	X	X	GLDL
Q. CHARLOTTES	Q28	54	19.0	133	3.2	84	1	21	23	X	X	GLDL
DIXON ENTRANCE	Q37	54	34.5	132	56.5	84	1	21	11	X	X	GLDL
DIXON ENTRANCE	Q46	54	34.2	132	31.3	84	1	21	13	X	X	GLDL
DIXON ENTRANCE	Q47	54	29.4	132	32.0	84	1	21	14	X	X	GLDL
DIXON ENTRANCE	Q49	54	24.2	132	46.5	84	1	21	17	X	X	GLDL
DIXON ENTRANCE	Q50	54	29.5	132	44.8	84	1	21	15	X	X	GLDL
DIXON ENTRANCE	Q51	54	34.3	132	43.5	84	1	21	12	X	X	GLDL
DIXON ENTRANCE	Q52	54	38.4	132	42.6	84	1	21	10	X	X	GLDL
DIXON ENTRANCE	Q53	54	38.4	132	31.0	84	1	21	9	X	X	GLDL
HECATE STRAIT	R 3	53	56.0	131	3.0	84	1	19	21	X	X	GLDL
HECATE STRAIT	R 4	53	56.0	131	8.5	84	1	19	20	X	X	GLDL
HECATE STRAIT	R 5	53	56.0	131	14.8	84	1	19	19	X	X	GLDL
HECATE STRAIT	R 6	53	56.0	131	23.0	84	1	19	19	X	X	GLDL
HECATE STRAIT	W 1	53	19.8	130	13.8	84	1	17	21	X	X	GLDL
HECATE STRAIT	W 2	53	19.2	130	18.0	84	1	17	22	X	X	GLDL
HECATE STRAIT	W 3	53	19.2	130	23.8	84	1	17	22	X	X	GLDL
HECATE STRAIT	W 4	53	17.3	130	29.6	84	1	17	23	X	X	GLDL
HECATE STRAIT	W 5	53	16.6	130	33.9	84	1	17	23	X	X	GLDL
HECATE STRAIT	W 6	53	16.1	130	37.3	84	1	18	0	X	X	GLDL
HECATE STRAIT	W 7	53	15.5	130	40.8	84	1	18	0	X	X	GLDL
HECATE STRAIT	W 8	53	14.8	130	45.2	84	1	18	1	X	X	GLDL

HECATE STRAIT	W 9	53	13.8	130	51.0	84	1	18	2			X		X	GLDL		
HECATE STRAIT	W10	53	13.0	130	56.8	84	1	18	2			X		X	GLDL		
HECATE STRAIT	W11	53	12.0	130	56.8	84	1	18	3			X		X	GLDL		
HECATE STRAIT	W12	53	11.1	131	9.3	84	1	18	3			X		X	GLDL		
HECATE STRAIT	W13	53	10.0	131	15.8	84	1	18	4			X		X	GLDL		
HECATE STRAIT	W14	53	9.1	131	21.3	84	1	18	4			X		X	GLDL		
HECATE STRAIT	W15	53	8.3	131	26.6	84	1	18	5			X		X	GLDL		
HECATE STRAIT	W16	53	7.2	131	33.5	84	1	18	5			X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 84-0002
YEAR:1984 VESSEL/AGENCY: IOS,PARIZEAU

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO (M)	DEPTH (M)	MEAS C	S	T		HR	
HECATE STRAIT	M 1	52	37.7	129	33.6	84	4	11	12			X		X	GLDL		
HECATE STRAIT	M 2	52	36.9	129	37.9	84	4	11	12			X		X	GLDL		
HECATE STRAIT	M 3	52	35.4	129	47.3	84	4	11	10			X		X	GLDL		
HECATE STRAIT	M 4	52	33.8	129	56.6	84	4	11	9			X		X	GLDL		
HECATE STRAIT	M 5	52	32.6	130	3.8	84	4	11	8			X		X	GLDL		
HECATE STRAIT	M 6	52	31.4	130	11.0	84	4	11	7			X		X	GLDL		
HECATE STRAIT	M 7	52	30.0	130	20.0	84	4	11	6			X		X	GLDL		
HECATE STRAIT	M 8	52	28.5	130	29.0	84	4	11	6			X		X	GLDL		
HECATE STRAIT	M 9	52	26.9	130	38.2	84	4	11	5			X		X	GLDL		
HECATE STRAIT	M10	52	25.5	130	47.0	84	4	11	3			X		X	GLDL		
HECATE STRAIT	M11	52	24.0	130	56.0	84	4	11	3			X		X	GLDL		
Q. CHARLOTTES	M12	52	22.4	131	6.7	84	4	11	2			X		X	GLDL		
Q. CHARLOTTES	M16	51	57.6	130	35.0	84	4	26	2			X		X	GLDL		
Q. CHARLOTTES	M16A	51	57.6	130	47.0	84	4	26	1			X		X	GLDL		
Q. CHARLOTTES	M17	51	57.5	130	50.5	84	4	26	1			X		X	GLDL		
Q. CHARLOTTES	M18	51	57.6	130	55.5	84	4	26	1			X		X	GLDL		
Q. CHARLOTTES	M19	51	57.6	130	58.6	84	4	26	0			X		X	GLDL		
HECATE STRAIT	MB	52	38.5	129	15.6	84	4	11	14			X		X	GLDL		
HECATE STRAIT	MO	52	38.5	129	20.6	84	4	11	14			X		X	GLDL		
DIXON ENTRANCE	Q104	54	39.2	132	3.2	84	4	17	3			X		X	GLDL		
DIXON ENTRANCE	Q105	54	36.5	132	1.7	84	4	17	3			X		X	GLDL		
DIXON ENTRANCE	Q106	54	33.6	132	0.3	84	4	17	4			X		X	GLDL		
DIXON ENTRANCE	Q107	54	27.2	131	57.2	84	4	17	4			X		X	GLDL		
DIXON ENTRANCE	Q108	54	22.2	131	54.6	84	4	17	5			X		X	GLDL		
DIXON ENTRANCE	Q109	54	16.8	131	52.0	84	4	17	6			X		X	GLDL		
DIXON ENTRANCE	Q110	54	12.5	131	50.0	84	4	17	6			X		X	GLDL		
DIXON ENTRANCE	Q111	54	10.2	131	48.8	84	4	17	6			X		X	GLDL		
DIXON ENTRANCE	Q112	54	8.2	131	47.8	84	4	17	7			X		X	GLDL		
DIXON ENTRANCE	Q113	54	11.2	131	46.0	84	4	18	12			X		X	GLDL		
DIXON ENTRANCE	Q114	54	19.4	131	46.0	84	4	18	11			X		X	GLDL		
DIXON ENTRANCE	Q115	54	23.2	131	46.0	84	4	18	10			X		X	GLDL		
DIXON ENTRANCE	Q116	54	28.8	131	46.0	84	4	18	10			X		X	GLDL		
DIXON ENTRANCE	Q117	54	34.3	131	46.0	84	4	18	9			X		X	GLDL		
DIXON ENTRANCE	Q118	54	38.5	131	46.0	84	4	18	9			X		X	GLDL		
DIXON ENTRANCE	Q119	54	43.1	131	57.8	84	4	16	3			X		X	GLDL		
DIXON ENTRANCE	Q120	54	43.1	131	55.0	84	4	16	3			X		X	GLDL		
DIXON ENTRANCE	Q121	54	43.1	131	46.0	84	4	16	4			X		X	GLDL		
DIXON ENTRANCE	Q122	54	43.1	131	40.5	84	4	16	4			X		X	GLDL		
DIXON ENTRANCE	Q123	54	43.1	131	33.9	84	4	16	5			X		X	GLDL		
DIXON ENTRANCE	Q124	54	43.1	131	27.7	84	4	16	5			X		X	GLDL		
DIXON ENTRANCE	Q125	54	43.1	131	21.3	84	4	16	6			X		X	GLDL		
DIXON ENTRANCE	Q126	54	43.1	131	16.1	84	4	16	6			X		X	GLDL		
DIXON ENTRANCE	Q127	54	43.1	131	10.7	84	4	16	7			X		X	GLDL		
DIXON ENTRANCE	Q128	54	43.1	131	3.2	84	4	16	7			X		X	GLDL		
DIXON ENTRANCE	Q129	54	43.1	130	56.1	84	4	16	8			X		X	GLDL		
DIXON ENTRANCE	Q130	54	43.1	130	51.7	84	4	16	8			X		X	GLDL		
DIXON ENTRANCE	Q137	54	40.5	132	51.5	84	4	15	13			X		X	GLDL		
DIXON ENTRANCE	Q139	54	11.0	132	49.0	84	4	17	10			X		X	GLDL		
DIXON ENTRANCE	Q28	54	19.0	133	3.2	84	4	22	6			X		X	GLDL		
DIXON ENTRANCE	Q40	54	17.7	132	33.5	84	4	15	9			X		X	GLDL		
DIXON ENTRANCE	Q41	54	10.0	132	18.0	84	4	15	7			X		X	GLDL		
DIXON ENTRANCE	Q41	54	10.0	132	18.0	84	4	17	8			X		X	GLDL		
DIXON ENTRANCE	Q42	54	17.0	132	18.0	84	4	18	5			X		X	GLDL		
DIXON ENTRANCE	Q43	54	21.3	132	18.0	84	4	18	5			X		X	GLDL		
DIXON ENTRANCE	Q44	54	25.5	132	18.0	84	4	18	6			X		X	GLDL		
DIXON ENTRANCE	Q45	54	34.0	132	18.0	84	4	18	6			X		X	GLDL		
DIXON ENTRANCE	Q46	54	34.2	132	31.3	84	4	15	11			X		X	GLDL		
DIXON ENTRANCE	Q47	54	29.4	132	32.0	84	4	15	10			X		X	GLDL		
DIXON ENTRANCE	Q48	54	24.0	132	32.6	84	4	15	9			X		X	GLDL		
DIXON ENTRANCE	Q52	54	38.4	132	42.6	84	4	15	12			X		X	GLDL		

DIXON ENTRANCE	Q53	54	38.4	132	31.0	84	4	15	11			X		X	GLDL		
DIXON ENTRANCE	Q54	54	38.4	132	18.0	84	4	18	7			X		X	GLDL		
DIXON ENTRANCE	Q55	54	38.4	132	6.5	84	4	15	2			X		X	GLDL		
DIXON ENTRANCE	Q55	54	38.4	132	6.5	84	4	18	8			X		X	GLDL		
DIXON ENTRANCE	Q56	54	34.3	132	6.5	84	4	15	3			X		X	GLDL		
DIXON ENTRANCE	Q57	54	28.8	132	6.5	84	4	15	4			X		X	GLDL		
DIXON ENTRANCE	Q58	54	23.3	132	6.5	84	4	15	5			X		X	GLDL		
DIXON ENTRANCE	Q59	54	16.7	132	6.5	84	4	15	5			X		X	GLDL		
DIXON ENTRANCE	Q60	54	10.2	132	6.5	84	4	15	6			X		X	GLDL		
DIXON ENTRANCE	Q60	54	10.2	132	6.5	84	4	17	8			X		X	GLDL		
DIXON ENTRANCE	Q62	54	15.3	131	46.0	84	4	18	12			X		X	GLDL		
DIXON ENTRANCE	Q63	54	11.0	132	34.5	84	4	15	8			X		X	GLDL		
DIXON ENTRANCE	Q63	54	11.0	132	34.5	84	4	17	9			X		X	GLDL		
HECATE STRAIT	R 1	53	56.0	130	53.5	84	4	12	22			X		X	GLDL		
HECATE STRAIT	R 2	53	56.0	130	57.9	84	4	12	21			X		X	GLDL		
HECATE STRAIT	R 3	53	56.0	131	3.0	84	4	12	21			X		X	GLDL		
HECATE STRAIT	R 4	53	56.0	131	8.5	84	4	12	20			X		X	GLDL		
HECATE STRAIT	R 5	53	56.0	131	15.0	84	4	12	20			X		X	GLDL		
HECATE STRAIT	R 6	53	56.0	131	23.0	84	4	12	20			X		X	GLDL		
HECATE STRAIT	R 7	53	56.0	131	31.5	84	4	12	19			X		X	GLDL		
HECATE STRAIT	W 1	53	19.8	130	13.7	84	4	12	13			X		X	GLDL		
HECATE STRAIT	W 2	53	19.2	130	18.1	84	4	12	13			X		X	GLDL		
HECATE STRAIT	W 3	53	18.2	130	23.7	84	4	12	12			X		X	GLDL		
HECATE STRAIT	W 4	53	17.3	130	29.5	84	4	12	12			X		X	GLDL		
HECATE STRAIT	W 5	53	16.7	130	34.0	84	4	12	12			X		X	GLDL		
HECATE STRAIT	W 6	53	16.0	130	37.5	84	4	12	11			X		X	GLDL		
HECATE STRAIT	W 7	53	15.5	130	41.0	84	4	12	11			X		X	GLDL		
HECATE STRAIT	W 8	53	14.9	130	45.0	84	4	12	10			X		X	GLDL		
HECATE STRAIT	W 9	53	13.8	130	51.0	84	4	12	10			X		X	GLDL		
HECATE STRAIT	W10	53	13.0	130	56.5	84	4	12	9			X		X	GLDL		
HECATE STRAIT	W11	53	12.0	131	2.7	84	4	12	9			X		X	GLDL		
HECATE STRAIT	W12	53	11.0	131	9.5	84	4	12	8			X		X	GLDL		
HECATE STRAIT	W13	53	10.0	131	16.0	84	4	12	8			X		X	GLDL		
HECATE STRAIT	W14	53	9.2	131	21.5	84	4	12	8			X		X	GLDL		
HECATE STRAIT	W15	53	8.2	131	26.5	84	4	12	7			X		X	GLDL		
HECATE STRAIT	W16	53	7.2	131	33.6	84	4	12	6			X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 84-0005
YEAR:1984 VESSEL/AGENCY: EPS

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO	DEPTH	MEAS				HR	
										(M)	(M)	C	S	T			
ALICE ARM	G5	55	27.40	129	30.02	84	07	6	19			X		X	PLES		
ALICE ARM	M9	55	26.95	129	30.61	84	07	6	21			X		X	PLES		
ALICE ARM	N8	55	27.00	129	29.22	84	07	6	20			X		X	PLES		
ALICE ARM	L10	55	27.03	129	30.74	84	07	6	22			X		X	PLES		
ALICE ARM	N14	55	26.90	129	31.40	84	07	6	22			X		X	PLES		
ALICE ARM	O13	55	26.82	129	31.23	84	07	6	22			X		X	PLES		
ALICE ARM	O13	55	26.90	129	30.60	84	07	7	16			X		X	PLES		
ALICE ARM	O13	55	26.90	129	30.65	84	07	7	16			X		X	PLES		
ALICE ARM	O20	55	26.90	129	31.85	84	07	7	0			X		X	PLES		
ALICE ARM	P12	55	26.00	129	31.00	84	07	6	23			X		X	PLES		
ALICE ARM	Q20	55	26.70	129	31.85	84	07	6	23			X		X	PLES		
ALICE ARM	S20	55	26.50	129	31.85	84	07	6	23			X		X	PLES		

BOTTLE/CTD DATA SET NUMBER: 84-0006
YEAR:1984 VESSEL/AGENCY: DOBROCKY

AREA	STN	LAT		LON		DATE				CAST	WATER	PARAM			INSTR	INT	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR	TO	DEPTH	MEAS				HR	
										(M)	(M)	C	S	T			
DIXON ENTRANCE	137	54	40.0	132	51.3	84	06	12	22	125	130	X		X	GLDL		
DIXON ENTRANCE	37	54	34.3	132	56.6	84	06	12	00	350	379	X		X	GLDL		
DIXON ENTRANCE	38	54	28.8	132	59.1	84	06	13	01	310	322	X		X	GLDL		
DIXON ENTRANCE	39	54	23.2	133	01.5	84	06	13	02	180	198	X		X	GLDL		
DIXON ENTRANCE	28	54	18.8	133	03.2	84	06	13	02	345	450	X		X	GLDL		

DIXON ENTRANCE	63	54	10.8	132	34.5	84	06	14	18	85	92	X		X	GLDL
DIXON ENTRANCE	40	54	17.6	132	33.5	84	06	14	19	240		X		X	GLDL
DIXON ENTRANCE	48	54	23.8	132	32.7	84	06	14	20	240		X		X	GLDL
DIXON ENTRANCE	47	54	29.3	132	32.0	84	06	14	21	300	361	X		X	GLDL
DIXON ENTRANCE	46	54	34.0	132	31.4	84	06	15	00	245	250	X		X	GLDL
DIXON ENTRANCE	53	54	38.2	132	31.2	84	06	15	01	175	180	X		X	GLDL
DIXON ENTRANCE	112	54	08.7	131	46.9	84	06	16	22	35	36	X		X	GLDL
DIXON ENTRANCE	111	54	12.6	131	49.0	84	06	16	23	110	117	X		X	GLDL
DIXON ENTRANCE	110	54	17.1	131	51.8	84	06	16	23	180	189	X		X	GLDL
DIXON ENTRANCE	109	54	22.1	131	54.5	84	06	17	00	225	232	X		X	GLDL
DIXON ENTRANCE	107	54	27.3	131	56.9	84	06	17	01	250	262	X		X	GLDL
DIXON ENTRANCE	106	54	33.6	132	00.4	84	06	17	03	310	320	X		X	GLDL
DIXON ENTRANCE	105	54	36.5	132	01.5	84	06	17	03	200	209	X		X	GLDL
DIXON ENTRANCE	104	54	39.6	132	03.5	84	06	17	04	110	120	X		X	GLDL
DIXON ENTRANCE	139	54	11.8	132	51.3	84	06	21	16	120	124	X		X	GLDL
DIXON ENTRANCE	140	54	14.4	132	50.5	84	06	21	16	245	253	X		X	GLDL
DIXON ENTRANCE	27	54	18.5	132	48.8	84	06	21	17	345	351	X		X	GLDL
DIXON ENTRANCE	49	54	24.1	132	46.5	84	06	21	18	360	374	X		X	GLDL
DIXON ENTRANCE	50	54	29.3	132	44.7	84	06	21	19	360	378	X		X	GLDL
DIXON ENTRANCE	51	54	34.2	132	43.5	84	06	21	20	300	306	X		X	GLDL
DIXON ENTRANCE	52	54	38.2	132	42.7	84	06	21	21	90	97	X		X	GLDL
DIXON ENTRANCE	54	54	38.2	132	18.1	84	06	21	23	130	133	X		X	GLDL
DIXON ENTRANCE	45	54	33.8	132	18.1	84	06	17	23	255	261	X		X	GLDL
DIXON ENTRANCE	41	54	10.0	132	18.1	84	06	23	17	90	94	X		X	GLDL
DIXON ENTRANCE	41A	54	13.2	132	18.4	84	06	23	17	132	137	X		X	GLDL
DIXON ENTRANCE	42	54	16.8	132	18.1	84	06	23	18	192	196	X		X	GLDL
DIXON ENTRANCE	43	54	21.2	132	18.2	84	06	23	18	230	237	X		X	GLDL
DIXON ENTRANCE	45	54	33.8	132	18.1	84	06	23	20	255	262	X		X	GLDL
DIXON ENTRANCE	54	54	38.2	132	18.1	84	06	23	21	130	133	X		X	GLDL

BOTTLE/CTD DATA SET NUMBER: 84-0007
YEAR:1984 VESSEL/AGENCY: IOS,PARIZEAU

AREA	STN	LAT		LON		DATE				CAST TO (M)	WATER DEPTH (M)	PARAM MEAS			INSTR	INT HR	NO
		DEG	MIN	DEG	MIN	YR	MO	DY	HR			C	S	T			
DIXON ENTRANCE	Q 36	54	31.0	133	13.0	84	10	15	9			X		X	GLDL		
DIXON ENTRANCE	Q 28	54	19.0	133	3.1	84	10	19	9			X		X	GLDL		
DIXON ENTRANCE	Q 64	54	21.5	133	24.0	84	10	19	11			X		X	GLDL		
DIXON ENTRANCE	Q 44	54	25.5	132	18.0	84	10	20	3			X		X	GLDL		
DIXON ENTRANCE	Q 45	54	34.0	132	18.0	84	10	20	4			X		X	GLDL		
DIXON ENTRANCE	Q 54	54	38.4	132	18.1	84	10	20	5			X		X	GLDL		
DIXON ENTRANCE	Q 55	54	38.4	132	6.5	84	10	20	6			X		X	GLDL		
DIXON ENTRANCE	Q104	54	39.1	132	3.1	84	10	20	6			X		X	GLDL		
DIXON ENTRANCE	Q105	54	36.5	132	1.7	84	10	20	7			X		X	GLDL		
DIXON ENTRANCE	Q106	54	33.5	132	0.3	84	10	20	7			X		X	GLDL		
DIXON ENTRANCE	Q107	54	27.2	131	57.1	84	10	20	8			X		X	GLDL		
DIXON ENTRANCE	Q108	54	22.2	131	54.5	84	10	20	9			X		X	GLDL		
DIXON ENTRANCE	Q109	54	16.7	131	52.0	84	10	20	10			X		X	GLDL		
DIXON ENTRANCE	Q110	54	12.5	131	50.0	84	10	20	10			X		X	GLDL		
DIXON ENTRANCE	Q 62	54	15.2	131	46.0	84	10	20	11			X		X	GLDL		
DIXON ENTRANCE	Q113	54	11.2	131	46.0	84	10	20	11			X		X	GLDL		
DIXON ENTRANCE	Q112	54	8.2	131	47.8	84	10	20	12			X		X	GLDL		
DIXON ENTRANCE	Q104	54	39.1	132	3.1	84	10	21	3			X		X	GLDL		
DIXON ENTRANCE	Q106	54	33.5	132	0.3	84	10	21	4			X		X	GLDL		
DIXON ENTRANCE	Q117	54	34.3	131	46.0	84	10	21	5			X		X	GLDL		
DIXON ENTRANCE	Q118	54	38.5	131	46.0	84	10	21	6			X		X	GLDL		
DIXON ENTRANCE	Q119	54	43.0	131	57.8	84	10	21	7			X		X	GLDL		
DIXON ENTRANCE	Q120	54	43.0	131	55.0	84	10	21	8			X		X	GLDL		
DIXON ENTRANCE	Q121	54	43.0	131	46.0	84	10	21	8			X		X	GLDL		
DIXON ENTRANCE	Q122	54	43.0	131	40.5	84	10	21	9			X		X	GLDL		
DIXON ENTRANCE	Q123	54	43.0	131	33.9	84	10	21	10			X		X	GLDL		
DIXON ENTRANCE	Q124	54	43.0	131	27.7	84	10	21	11			X		X	GLDL		
DIXON ENTRANCE	Q125	54	43.0	131	21.2	84	10	21	11			X		X	GLDL		
DIXON ENTRANCE	Q126	54	43.0	131	16.0	84	10	21	12			X		X	GLDL		
DIXON ENTRANCE	Q127	54	43.0	131	10.7	84	10	21	12			X		X	GLDL		
DIXON ENTRANCE	Q128	54	43.0	131	3.1	84	10	21	13			X		X	GLDL		
DIXON ENTRANCE	Q129	54	43.0	130	56.0	84	10	21	13			X		X	GLDL		
DIXON ENTRANCE	Q130	54	43.0	130	51.6	84	10	21	14			X		X	GLDL		
DIXON ENTRANCE	Q143	54	19.5	131	19.0	84	10	22	3			X		X	GLDL		
DIXON ENTRANCE	Q144	54	24.5	131	19.0	84	10	22	4			X		X	GLDL		
DIXON ENTRANCE	Q145	54	29.5	131	19.3	84	10	22	5			X		X	GLDL		
DIXON ENTRANCE	Q146	54	34.5	131	19.0	84	10	22	6			X		X	GLDL		
DIXON ENTRANCE	Q147	54	36.0	131	24.5	84	10	22	7			X		X	GLDL		
DIXON ENTRANCE	Q148	54	36.0	131	33.5	84	10	22	7			X		X	GLDL		

DIXON ENTRANCE	Q149	54	36.0	131	41.5	84	10	22	8	X	X	GLDL
DIXON ENTRANCE	Q150	54	32.1	131	38.1	84	10	22	9	X	X	GLDL
DIXON ENTRANCE	QD3E	54	27.7	131	34.3	84	10	22	10	X	X	GLDL
DIXON ENTRANCE	Q116	54	28.7	131	46.0	84	10	22	11	X	X	GLDL
DIXON ENTRANCE	Q117	54	34.3	131	46.0	84	10	22	12	X	X	GLDL
DIXON ENTRANCE	Q118	54	38.5	131	46.0	84	10	22	12	X	X	GLDL
DIXON ENTRANCE	Q121	54	43.0	131	46.0	84	10	22	13	X	X	GLDL
DIXON ENTRANCE	Q 58	54	23.2	132	6.5	84	10	26	4	X	X	GLDL
DIXON ENTRANCE	Q 59	54	16.7	132	6.5	84	10	26	5	X	X	GLDL
DIXON ENTRANCE	Q 42	54	17.7	132	18.0	84	10	26	6	X	X	GLDL
DIXON ENTRANCE	Q 40	54	17.7	132	33.5	84	10	26	7	X	X	GLDL
DIXON ENTRANCE	Q 27	54	18.5	132	48.8	84	10	26	8	X	X	GLDL
DIXON ENTRANCE	Q 49	54	24.2	132	46.5	84	10	26	9	X	X	GLDL
DIXON ENTRANCE	Q 50	54	29.5	132	44.8	84	10	26	10	X	X	GLDL
DIXON ENTRANCE	Q 51	54	34.3	132	43.5	84	10	26	11	X	X	GLDL
DIXON ENTRANCE	Q 46	54	34.1	132	31.2	84	10	26	12	X	X	GLDL
DIXON ENTRANCE	Q 45	54	34.0	132	18.0	84	10	26	13	X	X	GLDL
DIXON ENTRANCE	Q139	54	11.0	132	49.0	84	10	27	4	X	X	GLDL
DIXON ENTRANCE	Q 63	54	11.0	132	34.5	84	10	27	5	X	X	GLDL
DIXON ENTRANCE	Q 41	54	10.0	132	18.0	84	10	27	6	X	X	GLDL
DIXON ENTRANCE	Q 60	54	10.2	132	6.5	84	10	27	7	X	X	GLDL
DIXON ENTRANCE	QD3S	54	12.6	132	0.0	84	10	27	7	X	X	GLDL
DIXON ENTRANCE	Q 62	54	15.2	131	46.0	84	10	27	8	X	X	GLDL
DIXON ENTRANCE	Q114	54	19.4	131	46.0	84	10	27	9	X	X	GLDL
DIXON ENTRANCE	Q115	54	23.2	131	46.0	84	10	27	9	X	X	GLDL
DIXON ENTRANCE	Q116	54	28.7	131	46.0	84	10	27	10	X	X	GLDL
DIXON ENTRANCE	Q117	54	34.3	131	46.0	84	10	27	11	X	X	GLDL
DIXON ENTRANCE	Q150	54	34.3	131	38.1	84	10	27	12	X	X	GLDL
DIXON ENTRANCE	Q148	54	36.0	131	33.5	84	10	27	12	X	X	GLDL

11.2 CURRENT-METER DATA

The listings contain the following information:

AREA	General area of station.
STN	Station number; wherever possible it is the station number assigned in the original data source. Multiple meters are differentiated as 1.1, 1.2, 1.3, for example.
LAT, LONG	In degrees and minutes.
START/STOP	Year, month and day instrument recorded over.
EFF LEN	Effective record length, days of both speed and direction data. May be blank if not obvious from the available documentation.
DT (MN)	Sampling rate in minutes.
DEPTHS-INSTR/WATER	Instrument and water depth, in metres.
INSTR TYPE	Instrument type: AAND - Aanderaa RCM-4 or RCM-5 AMF - AMF vector averaging BR - Braincon meter CMDR - CMDR (modified to record on Aanderaa-type tape) CUSH - Cushing electromagnetic ENDE - Endeco GEOD - Geodyne GO - General Oceanics HYDR - Hydrowerstatten HYPR - Hydro Products HYTC - Hytech MARA - Marine Advisors M-MC - Marsh McBirney electromagnetic NEYR - Neyrpic CM NB - Neil Brown acoustic current meter RICH - Richardson SETR - Sea-Track current meter
ADDIT SENSOR	Other parameters measured - pressure, temperature, conductivity. Each measurement is qualified by one of the following: X - measurements of this parameter were made CA - possible calibration problems S - suspect readings C - constant readings 0 - zero or obviously bad readings

Blank entries indicate unavailable or inapplicable data.
? implies suspect data, but the only/best available.

CURRENT METER DATA SET NUMBER: 48-0009
YEAR:1948 VESSEL/AGENCY: POC,EHKOLI

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
CHATHAM SOUND	75	54	09.40	130	20.20	48	08	24	48	08	24	1	90	0	27				
CHATHAM SOUND	75	54	09.40	130	20.20	48	08	24	48	08	24	1	90	5	27				
CHATHAM SOUND	75	54	09.40	130	20.20	48	08	24	48	08	24	1	90	9	27				
CHATHAM SOUND	75	54	09.40	130	20.20	48	08	24	48	08	24	1	90	18	27				
CHATHAM SOUND	76	54	42.30	130	34.10	48	08	31	48	08	31	1	90	0	37				
CHATHAM SOUND	76	54	42.30	130	34.10	48	08	31	48	08	31	1	90	18	37				
CHATHAM SOUND	113	54	13.00	130	23.40	48	08	07	48	08	08	1	90	0	51				
CHATHAM SOUND	113	54	13.00	130	23.40	48	08	07	48	08	08	1	90	11	51				

CURRENT METER DATA SET NUMBER: 52-0013
YEAR:1952 VESSEL/AGENCY: POC

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
HECATE STRAIT		54	08.	130	58.	52	07	12	52	07	13								
HECATE STRAIT		54	08.	130	58.	52	07	20	52	07	21								
HECATE STRAIT		54	08.	130	58.	52	07	24	52	07	26								
HECATE STRAIT		54	08.	130	58.	52	07	26	52	07	27								
HECATE STRAIT	HS-1	54	08.	131	04.	52	07	12	52	07	27	25	30	0	77				
HECATE STRAIT	HS-1	54	08.	131	04.	52	07	12	52	07	27	25	30	76	77				

CURRENT METER DATA SET NUMBER: 54-0012A
YEAR:1954 VESSEL/AGENCY: POC,CEDARWOOD

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
HECATE STRAIT	42	53	36.30	130	43.80	54	05	23	54	05	25	2	60	0	183	DRAG			
HECATE STRAIT	42	53	36.30	130	43.80	54	05	23	54	05	25	2	60	10	183	DRAG			
HECATE STRAIT	42	53	36.30	130	43.80	54	05	23	54	05	25	2	60	20	183	EKMN			
HECATE STRAIT	42	53	36.30	130	43.80	54	05	23	54	05	25	2	60	30	183	EKMN			
HECATE STRAIT	42	53	36.30	130	43.80	54	05	23	54	05	25	2	60	50	183	EKMN			
HECATE STRAIT	42	53	36.30	130	43.80	54	05	23	54	05	25	2	60	100	183	EKMN			
HECATE STRAIT	42	53	36.30	130	43.80	54	05	23	54	05	25	2	60	150	183	EKMN			
HECATE STRAIT	43	53	26.60	131	04.20	54	05	21	54	05	23	2	30	0	60	DRAG			
HECATE STRAIT	43	53	26.60	131	04.20	54	05	21	54	05	23	2	30	10	60	EKMN			
HECATE STRAIT	43	53	26.60	131	04.20	54	05	21	54	05	23	2	30	20	60	EKMN			
HECATE STRAIT	43	53	26.60	131	04.20	54	05	21	54	05	23	2	30	30	60	EKMN			
HECATE STRAIT	43	53	26.60	131	04.20	54	05	21	54	05	23	2	30	50	60	EKMN			
HECATE STRAIT	44	53	15.50	131	30.30	54	05	19	54	05	21	2	30	0	20	DRAG			
HECATE STRAIT	44	53	15.50	131	30.30	54	05	19	54	05	21	2	30	5	20	DRAG			
HECATE STRAIT	44	53	15.50	131	30.30	54	05	19	54	05	21	2	30	10	20	EKMN			
HECATE STRAIT	44	53	15.50	131	30.30	54	05	19	54	05	21	2	30	17	20	EKMN			

CURRENT METER DATA SET NUMBER: 54-0012B
YEAR:1954 VESSEL/AGENCY: POG,EHKOLI

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
DIXON ENTRANCE	65	54	10.50	132	00.00	54	07	17	54	07	19	2	60	0	80	DRAG	
DIXON ENTRANCE	65	54	10.50	132	00.00	54	07	17	54	07	19	2	60	10	80	EKMN	
DIXON ENTRANCE	65	54	10.50	132	00.00	54	07	17	54	07	19	2	60	20	80	EKMN	
DIXON ENTRANCE	65	54	10.50	132	00.00	54	07	17	54	07	19	2	60	30	80	EKMN	
DIXON ENTRANCE	65	54	10.50	132	00.00	54	07	17	54	07	19	2	60	50	80	EKMN	
DIXON ENTRANCE	65	54	10.50	132	00.00	54	07	17	54	07	19	2	60	75	80	EKMN	

CURRENT METER DATA SET NUMBER: 54-0012C
YEAR:1954 VESSEL/AGENCY: POG,CEDARWOOD

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
HECATE STRAIT	I-1	52	31.20	131	07.70	54	09	04	54	09	06	2	60	0	88	DRAG	
HECATE STRAIT	I-1	52	31.20	131	07.70	54	09	04	54	09	06	2	60	10	88	EKMN	
HECATE STRAIT	I-1	52	31.20	131	07.70	54	09	04	54	09	06	2	60	20	88	EKMN	
HECATE STRAIT	I-1	52	31.20	131	07.70	54	09	04	54	09	06	2	60	30	88	EKMN	
HECATE STRAIT	I-1	52	31.20	131	07.70	54	09	04	54	09	06	2	60	50	88	EKMN	
HECATE STRAIT	I-1	52	31.20	131	07.70	54	09	04	54	09	06	2	60	75	88	EKMN	
HECATE STRAIT	I-2	52	40.00	130	40.00	54	09	02	54	09	04	2	60	0	137	DRAG	
HECATE STRAIT	I-2	52	40.00	130	40.00	54	09	02	54	09	04	2	60	10	137	EKMN	
HECATE STRAIT	I-2	52	40.00	130	40.00	54	09	02	54	09	04	2	60	20	137	EKMN	
HECATE STRAIT	I-2	52	40.00	130	40.00	54	09	02	54	09	04	2	60	30	137	EKMN	
HECATE STRAIT	I-2	52	40.00	130	40.00	54	09	02	54	09	04	2	60	50	137	EKMN	
HECATE STRAIT	I-2	52	40.00	130	40.00	54	09	02	54	09	04	2	60	100	137	EKMN	
HECATE STRAIT	I-3	52	53.00	130	08.00	54	08	30	54	09	01	2	60	0	234	DRAG	
HECATE STRAIT	I-3	52	53.00	130	08.00	54	08	30	54	09	01	2	60	10	234	EKMN	
HECATE STRAIT	I-3	52	53.00	130	08.00	54	08	30	54	09	01	2	60	20	234	EKMN	
HECATE STRAIT	I-3	52	53.00	130	08.00	54	08	30	54	09	01	2	60	50	234	EKMN	
HECATE STRAIT	I-3	52	53.00	130	08.00	54	08	30	54	09	01	2	60	100	234	EKMN	
HECATE STRAIT	I-3	52	53.00	130	08.00	54	08	30	54	09	01	2	60	200	234	EKMN	
Q.C.SOUND	6	50	54.70	128	04.60	54	09	07	54	09	07	.6	60	0	29	DRAG	
Q.C.SOUND	6	50	54.70	128	04.60	54	09	07	54	09	07	.6	60	10	29	EKMN	
Q.C.SOUND	6	50	54.70	128	04.60	54	09	07	54	09	07	.6	60	20	29	EKMN	
Q.C.SOUND	6	50	54.70	128	04.60	54	09	07	54	09	07	.6	60	25	29	EKMN	

CURRENT METER DATA SET NUMBER: 55-0013
YEAR:1955 VESSEL/AGENCY: POG,CEDARWOOD

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
Q.C. SOUND	5	51	01.50	127	54.80	55	06	06	55	06	08	2	60	0	132	DRAG	
Q.C. SOUND	5	51	01.50	127	54.80	55	06	06	55	06	08	2	60	10	132	EKMN	
Q.C. SOUND	5	51	01.50	127	54.80	55	06	06	55	06	08	2	60	20	132	EKMN	
Q.C. SOUND	5	51	01.50	127	54.80	55	06	06	55	06	08	2	60	30	132	EKMN	
Q.C. SOUND	5	51	01.50	127	54.80	55	06	06	55	06	08	2	60	50	132	EKMN	
Q.C. SOUND	5	51	01.50	127	54.80	55	06	06	55	06	08	2	60	75	132	EKMN	
Q.C. SOUND	5	51	01.50	127	54.80	55	06	06	55	06	08	2	60	100	132	EKMN	
Q.C. SOUND	5	51	01.50	127	54.80	55	06	06	55	06	08	2	60	120	132	EKMN	
Q.C. SOUND	9	50	55.70	129	06.00	55	06	01	55	06	03	2	60	0	84	DRAG	
Q.C. SOUND	9	50	55.70	129	06.00	55	06	01	55	06	03	2	60	10	84	EKMN	
Q.C. SOUND	9	50	55.70	129	06.00	55	06	01	55	06	03	2	60	20	84	EKMN	
Q.C. SOUND	9	50	55.70	129	06.00	55	06	01	55	06	03	2	60	30	84	EKMN	
Q.C. SOUND	9	50	55.70	129	06.00	55	06	01	55	06	03	2	60	50	84	EKMN	

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Q.C. SOUND          9 50 55.70 129 06.00 55 06 01 55 06 03    2 60     75     84 EKMN
Q.C. STRAIT         T 50 49.50 127 15.80 55 06 06 55 06 08    2 60     10     60 EKMN
Q.C. STRAIT         T 50 49.50 127 15.80 55 06 06 55 06 08    2 60     20     60 EKMN
Q.C. STRAIT         T 50 49.50 127 15.80 55 06 06 55 06 08    2 60     30     60 EKMN
Q.C. STRAIT         T 50 49.50 127 15.80 55 06 06 55 06 08    2 60     50     60 EKMN
Q.C. SOUND         14 51 19.70 128 27.00 55 06 04 55 06 05    1 60      0    124 DRAG
Q.C. SOUND         14 51 19.70 128 27.00 55 06 04 55 06 05    1 60     10    124 EKMN
Q.C. SOUND         14 51 19.70 128 27.00 55 06 04 55 06 05    1 60     20    124 EKMN
Q.C. SOUND         14 51 19.70 128 27.00 55 06 04 55 06 05    1 60     30    124 EKMN
Q.C. SOUND         14 51 19.70 128 27.00 55 06 04 55 06 05    1 60     50    124 EKMN
Q.C. SOUND         14 51 19.70 128 27.00 55 06 04 55 06 05    1 60     75    124 EKMN
Q.C. SOUND         14 51 19.70 128 27.00 55 06 04 55 06 05    1 60    100    124 EKMN
HECATE STRAIT      46 53 46.00 131 15.00 55 06 15 55 06 15    1 60      0     40 DRAG
HECATE STRAIT      46 53 46.00 131 15.00 55 06 15 55 06 15    1 60     10     40 EKMN
HECATE STRAIT      46 53 46.00 131 15.00 55 06 15 55 06 15    1 60     20     40 EKMN
HECATE STRAIT      46 53 46.00 131 15.00 55 06 15 55 06 15    1 60     30     40 EKMN
HECATE STRAIT      46 53 46.00 131 15.00 55 06 15 55 06 15    1 60     35     40 EKMN
DIXON ENTRANCE  60-61 54 41.00 131 20.00 55 06 14 55 06 14    1 60      0    176 DRAG
DIXON ENTRANCE  60-61 54 41.00 131 20.00 55 06 14 55 06 14    1 60     10    176 EKMN
DIXON ENTRANCE  60-61 54 41.00 131 20.00 55 06 14 55 06 14    1 60     20    176 EKMN
DIXON ENTRANCE  60-61 54 41.00 131 20.00 55 06 14 55 06 14    1 60     30    176 EKMN
DIXON ENTRANCE  60-61 54 41.00 131 20.00 55 06 14 55 06 14    1 60     50    176 EKMN
DIXON ENTRANCE  60-61 54 41.00 131 20.00 55 06 14 55 06 14    1 60     75    176 EKMN
DIXON ENTRANCE  60-61 54 41.00 131 20.00 55 06 14 55 06 14    1 60    100    176 EKMN
DIXON ENTRANCE  60-61 54 41.00 131 20.00 55 06 14 55 06 14    1 60    150    176 EKMN


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CURRENT METER DATA SET NUMBER:  61-0022
YEAR:1961        VESSEL/AGENCY: EHKOLI,FOC

    AREA          STN    LAT       LON       START      STOP     EFF DT    DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN   YR MO DY YR MO DY    LEN MN INSTR WATER TYPE SENSOR
                                                                                        P T C


PORPOISE HBR      P14A 54 14.59 130 18.40 61 09 17 61 09 18    1 60      0     22 DRAG
PORPOISE HBR      P14A 54 14.59 130 18.40 61 09 17 61 09 18    1 60      5     22 DRAG
PORPOISE HBR      P14A 54 14.59 130 18.40 61 09 17 61 09 18    1 60     10     22 DRAG
PORPOISE HBR      P14A 54 14.59 130 18.40 61 09 17 61 09 18    1 60     15     22 DRAG
PORPOISE HBR      P14A 54 14.59 130 18.40 61 09 17 61 09 18    1 60     20     22 DRAG


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CURRENT METER DATA SET NUMBER:  62-0018
YEAR:1962        VESSEL/AGENCY: OSHAWA

    AREA          STN    LAT       LON       START      STOP     EFF DT    DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN   YR MO DY YR MO DY    LEN MN INSTR WATER TYPE SENSOR
                                                                                        P T C


DIXON ENTRANCE      A 54 33.00 132 02.00 62 09 24 62 09 26    2          0    263
DIXON ENTRANCE      A 54 33.00 132 02.00 62 09 24 62 09 26    2         50    263
DIXON ENTRANCE      A 54 33.00 132 02.00 62 09 24 62 09 26    2        100    263
DIXON ENTRANCE      A 54 33.00 132 02.00 62 09 24 62 09 26    2        150    263
DIXON ENTRANCE      A 54 33.00 132 02.00 62 09 24 62 09 26    2        200    263
DIXON ENTRANCE      B 54 26.00 132 00.00 62 10 01 62 10 03    2          0    320
DIXON ENTRANCE      B 54 26.00 132 00.00 62 10 01 62 10 03    2         50    320
DIXON ENTRANCE      B 54 26.00 132 00.00 62 10 01 62 10 03    2        100    320
DIXON ENTRANCE      B 54 26.00 132 00.00 62 10 01 62 10 03    2        150    320
DIXON ENTRANCE      B 54 26.00 132 00.00 62 10 01 62 10 03    2        200    320
DIXON ENTRANCE      C 54 17.00 132 00.00 62 10 08 62 10 09    1          0    198
DIXON ENTRANCE      C 54 17.00 132 00.00 62 10 08 62 10 09    1         50    198
DIXON ENTRANCE      C 54 17.00 132 00.00 62 10 08 62 10 09    1        100    198
DIXON ENTRANCE      C 54 17.00 132 00.00 62 10 08 62 10 09    1        150    198
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CURRENT METER DATA SET NUMBER: 62-0020
YEAR:1962 VESSEL/AGENCY: EHKOLI

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
COUSINS INLET	O-10A	52	21.10	127	42.25	62	04	25	62	04	26	1	60	0	49		
COUSINS INLET	O-10A	52	21.10	127	42.25	62	04	25	62	04	26	1	60	5	49		
COUSINS INLET	O-10A	52	21.10	127	42.25	62	04	25	62	04	26	1	60	10	49		
COUSINS INLET	O-10A	52	21.10	127	42.25	62	04	25	62	04	26	1	60	15	49		
COUSINS INLET	O-10A	52	21.10	127	42.25	62	04	25	62	04	26	1	60	20	49		
COUSINS INLET	O-10A	52	21.10	127	42.25	62	04	25	62	04	26	1	60	30	49		
COUSINS INLET	O-10A	52	21.10	127	42.25	62	04	25	62	04	26	1	60	40	49		

CURRENT METER DATA SET NUMBER: 64-0012
YEAR:1964 VESSEL/AGENCY: EHKOLI

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
KITIMAT HARBOR	K-9A	53	59.50	128	40.50	64	10	17	64	10	19	2	30	0	46		
KITIMAT HARBOR	K-9A	53	59.50	128	40.50	64	10	17	64	10	19	2	60	5	46		
KITIMAT HARBOR	K-9A	53	59.50	128	40.50	64	10	17	64	10	19	2	60	10	46		
KITIMAT HARBOR	K-9A	53	59.50	128	40.50	64	10	17	64	10	19	2	60	15	46		
KITIMAT HARBOR	K-9A	53	59.50	128	40.50	64	10	17	64	10	19	2	60	20	46		
KITIMAT HARBOR	K-9A	53	59.50	128	40.50	64	10	17	64	10	19	2	60	30	46		
KITIMAT HARBOR	K-9A	53	59.50	128	40.50	64	10	17	64	10	19	2	60	40	46		
PRINCE RUPERT	P-4A	54	14.00	130	20.50	64	10	24	64	10	26	2	30	0	40		
PRINCE RUPERT	P-4A	54	14.00	130	20.50	64	10	24	64	10	26	2	60	5	40		
PRINCE RUPERT	P-4A	54	14.00	130	20.50	64	10	24	64	10	26	2	60	10	40		
PRINCE RUPERT	P-4A	54	14.00	130	20.50	64	10	24	64	10	26	2	60	15	40		
PRINCE RUPERT	P-4A	54	14.00	130	20.50	64	10	24	64	10	26	2	60	20	40		
PRINCE RUPERT	P-4A	54	14.00	130	20.50	64	10	24	64	10	26	2	60	30	40		

CURRENT METER DATA SET NUMBER: 67-0023
YEAR:1967 VESSEL/AGENCY: VELELLA

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
BURKE CHANNEL	1C	52	22.10	126	53.10	67	04	09	67	04	19	10	20	2	358	NEYR	
BURKE CHANNEL	1N	52	22.40	126	53.50	67	04	09	67	05	01	22	20	2	230	NEYR	
BURKE CHANNEL	1S	52	21.80	126	52.90	67	04	09	67	04	11	2	20	2	73	NEYR	
BURKE CHANNEL	1S	52	21.80	126	52.90	67	04	23	67	04	26	3	20	2	73	NEYR	
BURKE CHANNEL	2C	52	17.40	126	58.00	67	04	11	67	04	19	8	20	2	543	NEYR	
BURKE CHANNEL	2C	52	17.40	126	58.00	67	05	15	67	05	15	1	20	2	543	NEYR	
BURKE CHANNEL	2N	52	17.70	126	57.30	67	04	11	67	04	29	18	20	2	183	NEYR	
BURKE CHANNEL	2N	52	17.70	126	57.30	67	05	11	67	05	17	6	20	2	183	NEYR	
BURKE CHANNEL	2S	52	17.10	126	58.80	67	04	11	67	04	20	9	20	2	183	NEYR	
BURKE CHANNEL	2S	52	17.10	126	58.80	67	04	30	67	05	17	17	20	2	183	NEYR	
BURKE CHANNEL	3C	52	19.40	127	06.60	67	04	11	67	04	12	1	20	2	246	NEYR	
BURKE CHANNEL	3C	52	19.40	127	06.60	67	04	21	67	05	11	20	20	2	246	NEYR	
BURKE CHANNEL	3E	52	19.90	127	06.40	67	04	29	67	04	30	1	20	2	64	NEYR	
BURKE CHANNEL	3W	52	18.70	127	06.80	67	04	30	67	05	11	11	20	2	183	NEYR	
BURKE CHANNEL	4C	52	23.70	127	13.50	67	05	05	67	05	17	12	20	2	264	NEYR	
BURKE CHANNEL	4E	52	23.60	127	12.80	67	05	05	67	05	17	12	20	2	91	NEYR	
BURKE CHANNEL	4W	52	23.90	127	14.30	67	05	05	67	05	17	12	20	2	91	NEYR	
BURKE CHANNEL	5N	52	18.20	127	14.10	67	05	12	67	05	18	6	20	2	183	NEYR	
BURKE CHANNEL	5S	52	17.70	127	12.40	67	05	12	67	05	18	6	20	2	91	NEYR	
BURKE CHANNEL	6C	51	55.60	127	51.60	67	05	20	67	05	27	7	20	2	69	NEYR	
BURKE CHANNEL	6N	51	55.90	127	52.10	67	05	20	67	06	08	19	20	2	91	NETR	

BURKE CHANNEL	6S	51	55.20	127	51.10	67	05	20	67	05	27	7	20	2	128	NEYR			
FISHER CHANNEL	7C	51	56.90	127	56.00	67	05	20	67	06	06	17	20	2	344	NEYR			
FISHER CHANNEL	7E	51	57.00	127	54.70	67	05	20	67	06	08	19	20	2	70	NEYR			
FISHER CHANNEL	7W	51	56.80	127	57.20	67	05	20	67	06	08	19	20	2	183	NEYR			

CURRENT METER DATA SET NUMBER: 68-0025
YEAR:1968 VESSEL/AGENCY: SEDCO135F

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
HECATE STRAIT	B-10	52	49.10	131	00.70	68	05	27	68	06	01	5		4	60				
HECATE STRAIT	B-10	52	49.10	131	00.70	68	05	27	68	06	01	5		59	60				
HECATE STRAIT	B-10	52	49.10	131	00.70	68	05	29	68	06	12	14	20	4	60				
HECATE STRAIT	B-10	52	49.10	131	00.70	68	06	13	68	06	24	11	20	4	60				
HECATE STRAIT	B-10	52	49.10	131	00.70	68	06	26	68	06	30	4	20	4	60				
HECATE STRAIT	G-41	52	20.30	130	36.50	68	08	20	68	08	27	7		75	169				
HECATE STRAIT	H-39	53	18.90	131	20.30	68	04	22	68	04	24	2		4	26				
HECATE STRAIT	H-39	53	18.90	131	20.30	68	04	22	68	04	24	2		25	26				
HECATE STRAIT	H-39	53	18.90	131	20.30	68	04	24	68	05	05	11	20	4	26				
HECATE STRAIT	O-86	51	55.10	129	58.20	68	10	04	68	10	13	9		75	135				

CURRENT METER DATA SET NUMBER: 74-0043
YEAR:1974 VESSEL/AGENCY: DOBROCKY

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
PORT SIMPSON	S3	54	35.	130	25.	74	11	07	74	11	08	1		2		HELE			
PORT SIMPSON	S3	54	35.	130	25.	74	11	07	74	11	08	1		10		HELE			
PORT SIMPSON	S3	54	35.	130	25.	74	11	07	74	11	08	1		20		HELE			
PORT SIMPSON	S3	54	35.	130	25.	74	11	07	74	11	08	1		35		HELE			

CURRENT METER DATA SET NUMBER: 76-0050
YEAR:1976 VESSEL/AGENCY: DOBROCKY

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
ALICE ARM	E4	55	27.32	129	29.65	76	08	16	76	09	21	35	10	5	110	AAND		X	X
ALICE ARM	E4	55	27.32	129	29.65	76	08	16	76	09	21	35	10	54	110	AAND		X	X
ALICE ARM	E4	55	27.32	129	29.65	76	08	16	76	09	21	35	10	97	110	AAND		X	X
ALICE ARM	F15	55	27.02	129	38.05	76	08	17	76	09	22	35	10	10	371	AAND		X	X
ALICE ARM	F15	55	27.02	129	38.05	76	08	17	76	09	22	35	10	182	371	AAND		X	X

CURRENT METER DATA SET NUMBER: 76-0062
YEAR:1976 VESSEL/AGENCY: DOBROCKY

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
ALICE ARM	E4	55	27.32	129	29.65	76	09	23	76	12	09	77	15	10	110	AAND		X	X
ALICE ARM	E4	55	27.32	129	29.65	76	09	23	76	12	09	77	15	51	110	AAND		X	X
ALICE ARM	E4	55	27.32	129	29.65	76	09	23	76	12	09	77	15	97	110	AAND			
ALICE ARM	F15	55	27.02	129	38.05	76	09	23	76	12	10	78	15	182	371	AAND		X	X
ALICE ARM	F15	55	27.02	129	38.05	76	09	23	76	12	10	78	15	360	371	AAND		X	X

CURRENT METER DATA SET NUMBER: 76-0063
YEAR:1976 VESSEL/AGENCY: DOBROCKY

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
ALICE ARM	E4	55	27.32	129	29.65	76	12	11	77	03	10	89	15	55	110	AAND		X	X
ALICE ARM	E4	55	27.32	129	29.65	76	12	11	77	03	10	89	15	105	110	AAND		X	X
ALICE ARM	F15	55	27.02	129	38.05	76	12	11	77	03	10	89	15	10	371	AAND		X	X
ALICE ARM	F15	55	27.02	129	38.05	76	12	11	77	03	10	89	15	189	371	AAND		X	X
ALICE ARM	F15	55	27.02	129	38.05	76	12	11	77	03	10	89	15	374	371	AAND		X	X

CURRENT METER DATA SET NUMBER: 77-0042
YEAR:1977 VESSEL/AGENCY: SEALION

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
KITIMAT	CM01	53	56.70	128	41.25	77	07	10	77	09	27	79	15	40	207	AAND	X	X	X
KITIMAT	CM01	53	56.70	128	41.25	77	07	10	77	09	27	79	15	104	207	AAND	X	X	X
KITIMAT	CM01	53	56.70	128	41.25	77	07	10	77	09	27	79	15	168	207	AAND	X	X	X
KITIMAT	CM02	53	30.78	129	12.00	77	07	09	77	09	27	80	15	40	371	AAND	X	X	X
KITIMAT	CM02	53	30.78	129	12.00	77	07	09	77	09	27	80	15	172	371	AAND	X	X	X
KITIMAT	CM02	53	30.78	129	12.00	77	07	09	77	09	27	80	15	304	371	AAND		X	X
KITIMAT	CM02	53	30.79	129	12.50	77	09	27	77	12	12	76	15	40		AAND	X	X	X
KITIMAT	CM02	53	30.79	129	12.50	77	09	27	77	12	12	76	15	172		AAND	X	X	X
KITIMAT	CM02	53	30.79	129	12.50	77	09	27	77	12	12	76	15	304		AAND	X	X	X
KITIMAT	CM02	53	30.79	129	12.50	77	12	12	78	03	07	85	15	40		AAND	X	X	X
KITIMAT	CM02	53	30.79	129	12.50	77	12	12	78	03	07	85	15	172		AAND	X	X	X
KITIMAT	CM02	53	30.79	129	12.50	77	12	12	78	03	07	85	15	304		AAND		X	X
KITIMAT	CM03	53	30.10	129	12.10	77	07	11	77	09	27	78	15	5		AAND	X	X	X
KITIMAT	CM03	53	30.10	129	12.10	77	07	11	77	09	27	78	15	17		AAND	X	X	X
KITIMAT	CM03	53	30.10	129	12.10	77	09	27	77	12	12	76	15	5		AAND	X	X	X
KITIMAT	CM03	53	30.10	129	12.10	77	09	27	77	12	12	76	15	17		AAND		X	X
KITIMAT	CM03	53	30.10	129	12.10	77	12	12	77	12	31	18	15	15		AAND	X	X	X
KITIMAT	CM04	52	59.88	129	14.90	77	07	08	77	09	26	80	15	40		AAND	X	X	X
KITIMAT	CM04	52	59.88	129	14.90	77	07	08	77	09	26	80	15	153		AAND	X	X	X
KITIMAT	CM04	52	59.88	129	14.90	77	07	08	77	09	26	80	15	266		AAND	X	X	X
KITIMAT	CM04	59	59.91	129	14.90	77	09	26	77	12	07	72	15	40		AAND	X	X	X
KITIMAT	CM04	59	59.91	129	14.90	77	09	26	77	12	07	72	15	153		AAND		X	X
KITIMAT	CM04	59	59.91	129	14.90	77	09	26	77	12	07	72	15	266		AAND		X	X
KITIMAT	CM05	53	24.60	129	07.90	77	09	28	77	12	08	72	15	40		AAND	X	X	X
KITIMAT	CM05	53	24.60	129	07.90	77	09	28	77	12	08	72	15	147		AAND		X	X
KITIMAT	CM05	53	24.60	129	07.90	77	09	28	77	12	08	72	15	254		AAND		X	X
KITIMAT	CM06	53	44.95	128	49.25	77	09	28	77	12	11	75	15	40		AAND	X	X	X
KITIMAT	CM06	53	44.95	128	49.25	77	09	28	77	12	11	75	15	153		AAND	X	X	X
KITIMAT	CM06	53	44.95	128	49.25	77	09	28	77	12	11	75	15	266		AAND	X	X	X
KITIMAT	CM08	53	12.00	129	31.80	77	12	10	78	03	06	88	15	40		AAND	X	X	X
KITIMAT	CM08	53	12.00	129	31.80	77	12	10	78	03	06	88	15	136		AAND		X	X

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KITIMAT          CM08 53 12.00 129 31.80 77 12 10 78 03 06   88 15   228          AAND   X X
KITIMAT          CM09 53 08.75 129 22.50 77 12 13 78 03 06   85 15   444          AAND   X X
KITIMAT          CM10 53 32.46 129 00.60 77 12 05 77 12 17   12 15     3          AAND X X X
KITIMAT          CM10 53 32.46 129 00.60 77 12 05 77 12 17   12 15    10          AAND X X X
KITIMAT          CM10 53 32.46 129 00.60 77 12 05 77 12 17   12 15    20          AAND X X X
KITIMAT          CM11 53 40.75 128 49.80 77 12 09 77 12 17    8 15     3          AAND X X X
KITIMAT          CM11 53 40.75 128 49.80 77 12 09 77 12 17    8 15    15          AAND X X X
KITIMAT          CM11 53 40.75 128 49.80 77 12 09 77 12 17    8 15    60          AAND X X X


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CURRENT METER DATA SET NUMBER:  77-0042D
YEAR:1977         VESSEL/AGENCY: SEALION

     AREA        STN    LAT       LON        START     STOP     EFF DT    DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN    YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                      P T C

KITIMAT          CM02 53 30.78 129 12.20 78 03 07 78 06 10   94 15    40          AAND X X X
KITIMAT          CM02 53 30.78 129 12.20 78 03 07 78 06 10   94 15   172          AAND   X X
KITIMAT          CM02 53 30.78 129 12.20 78 03 07 78 06 10   94 15   304          AAND   X X
KITIMAT          CM12 53 24.70 129 23.90 78 03 08 78 06 09   94 15    37          AAND X X X
KITIMAT          CM12 53 24.70 129 23.90 78 03 08 78 06 09   94 15   157          AAND X X X
KITIMAT          CM15 53 12.20 129 07.38 78 03 08 78 06 09   94 15    40          AAND X X X
KITIMAT          CM15 53 12.20 129 07.38 78 03 08 78 06 09   94 15   240          AAND   X X
KITIMAT          CM15 53 12.20 129 07.38 78 03 08 78 06 09   94 15   440          AAND   X X


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CURRENT METER DATA SET NUMBER:  77-0057
YEAR:1977         VESSEL/AGENCY: PARIZEAU

     AREA        STN    LAT       LON        START     STOP     EFF DT    DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN    YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                      P T C

CAAMANO SOUND    C01 52 52.7  129 53.8   77 05 20 77 07 16   57 15    15    188 AAND X X X
CAAMANO SOUND    C01 52 52.9  129 54.3   77 07 16 77 09 23   69 15    20    188 AAND X X X
CAAMANO SOUND    C02 52 55.0  129 37.0   77 07 16 77 09 23   69 15   200    205 AAND X X X
CAAMANO SOUND    C02 52 55.0  129 37.0   77 05 20 77 07 16   57 15   200    205 AAND X X
CAAMANO SOUND    C02 52 55.0  129 37.0   77 07 04 77 07 16   12 15    23    205 AAND X X X
CAAMANO SOUND    C02 52 55.0  129 37.0   77 07 16 77 09 21   67 15    15    205 AAND X X
CAAMANO SOUND    C03 52 54.0  129 19.0   77 05 20 77 07 16   57 15    20    250 AAND X X X
CAAMANO SOUND    C03 52 54.2  129 19.4   77 07 16 77 08 21   36 15    20    250 AAND X X X
HECATE STRAIT    H01 53 28.8  130 45.7   77 07 18 77 09 24   68 15   150    164 AAND   X X
HECATE STRAIT    H01 53 28.8  130 45.7   77 07 18 77 09 24   68 15    15    164 AAND   X X
HECATE STRAIT    H01 53 28.9  130 46.2   77 05 21 77 07 18   58 15    15    164 AAND   X X
HECATE STRAIT    H01 53 28.9  130 46.2   77 05 21 77 07 18   58 15   150    164 AAND   X X
HECATE STRAIT    H02 53 41.3  130 31.5   77 05 21 77 07 18   58 15    17     50 AAND X X X
HECATE STRAIT    H02 53 41.2  130 31.5   77 07 18 77 08 12   25 15    17     50 AAND X X X
OTTER CHANNEL    O01 53 11.9  129 30.1   77 05 20 77 07 18   59 15    15    275 AAND   X X
Q.C. SOUND       Q03 50 58.5  129 17.6   77 05 18 77 07 15   58 15    15    159 AAND X X X
Q.C. SOUND       Q03 50 58.5  129 17.6   77 05 18 77 07 15   58 15   150    159 AAND X X X
Q.C. SOUND       Q03 50 58.9  129 16.9   77 07 15 77 09 20   67 15     9    159 AAND X X X
Q.C. SOUND       Q03 50 58.9  129 16.9   77 07 15 77 09 20   67 15   150    159 AAND X X X
Q.C. SOUND       Q04 51 18.9  129 02.0   77 07 14 77 10 20   68 15    15    260 AAND   X X
Q.C. SOUND       Q04 51 18.9  129 02.0   77 07 14 77 10 20    0 15   250    260 AAND X X X
Q.C. SOUND       Q04 51 19.3  129 01.6   77 05 18 77 07 14   57 15    15    260 AAND   X X
Q.C. SOUND       Q04 51 19.3  129 01.6   77 05 18 77 07 14   57 15   255    260 AAND X X X
Q.C. SOUND       Q05 51 22.0  130 01.0   77 05 18 77 07 19   62 15     9    269 AAND X X X
Q.C. SOUND       Q05 51 22.0  130 01.0   77 05 18 77 07 19   62 15   255    269 AAND   X X
Q.C. SOUND       Q07 52 20.5  130 17.5   77 05 22 77 07 17   56 15    10    350 AAND   X X
Q.C. SOUND       Q07 52 20.5  130 17.5   77 05 22 77 07 17   56 15   345    350 AAND   X X
Q.C. SOUND       Q07 52 20.2  130 19.5   77 07 17 77 08 01   15 15   320    350 AAND   X X
Q.C. SOUND       Q07 52 20.2  130 19.5   77 07 17 77 10 21   66 15    10    350 AAND   X X
Q.C. SOUND       Q08 52 21.0  129 30.0   77 05 19 77 07 17   59 15    18    164 AAND X X X
Q.C. SOUND       Q08 52 20.9  129 29.6   77 07 17 77 08 18   32 15    18    164 AAND X X X
Q.C. SOUND       Q08 52 20.9  129 29.6   77 07 17 77 09 23   68 15   160    164 AAND X X X
Q.C. SOUND       Q08 52 21.0  129 30.0   77 05 19 77 07 17   59 15   160    164 AAND X X X
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CURRENT METER DATA SET NUMBER:  77-0076
YEAR:1977        VESSEL/AGENCY: DOBROCKY

    AREA         STN    LAT       LON       START      STOP     EFF DT    DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                     P T C

ALICE ARM          E4 55 27.32 129 29.65 77 03 12 77 06 15   95 15     5   110 AAND   X X
ALICE ARM          E4 55 27.32 129 29.65 77 03 12 77 06 15   95 15    54   110 AAND   X X
ALICE ARM          E4 55 27.32 129 29.65 77 03 12 77 06 15   95 15    97   110 AAND   X X
ALICE ARM         F15 55 27.02 129 38.05 77 03 12 77 06 16   95 15    10   371 AAND   X X
ALICE ARM         F15 55 27.02 129 38.05 77 03 12 77 06 16   95 15   360   371 AAND   X X

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CURRENT METER DATA SET NUMBER:  77-0077
YEAR:1977        VESSEL/AGENCY: DOBROCKY

    AREA         STN    LAT       LON       START      STOP     EFF DT    DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                     P T C

ALICE ARM          E4 55 27.32 129 29.65 77 06 17 77 09 20   73 15     5   110 AAND   X X
ALICE ARM          E4 55 27.32 129 29.65 77 06 17 77 09 20   95 15    54   110 AAND   X X
ALICE ARM          E4 55 27.32 129 29.65 77 06 17 77 09 20   95 15    97   110 AAND   X X
ALICE ARM         F15 55 27.02 129 38.05 77 06 17 77 09 21   96 15   182   371 AAND   X X
ALICE ARM         F15 55 27.02 129 38.05 77 06 17 77 09 21   96 15   360   371 AAND   X X

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CURRENT METER DATA SET NUMBER:  77-0079
YEAR:1977        VESSEL/AGENCY: ASSOC.ENG.

    AREA         STN    LAT       LON       START      STOP     EFF DT    DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                     P T C

PRINCE RUPERT       3 54 18.8  130 20.7  77 07 04 77 07 15   11  5    35    36 AAND X X X

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CURRENT METER DATA SET NUMBER:  81-0018
YEAR:1981        VESSEL/AGENCY: PARIZEAU,IOS

    AREA         STN    LAT       LON       START      STOP     EFF DT    DEPTHS    INST ADDIT
                      DEG MIN   DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                     P T C

ALICE ARM       AASIL 55 24.95 129 40.60 81 12 05 82 01 15   40 15    18         AAND   X X
ALICE ARM       AASIL 55 24.95 129 40.60 81 12 05 82 01 25   51 15    48         AAND   X X
OBSERVATORY IN OBS11 55 03.20 130 00.40 81 12 03 82 01 24   51 15    19         AAND   X X
OBSERVATORY IN OBS21 55 05.05 129 59.01 81 12 03 82 01 24   51 15    13         AAND   X X
OBSERVATORY IN OBS21 55 05.05 129 59.01 81 12 03 82 01 24   51 15    53         AAND   X X
OBSERVATORY IN OBS21 55 05.05 129 59.01 81 12 03 82 01 24   51 15   103         AAND   X X
OBSERVATORY IN OBS31 55 19.85 129 47.01 81 12 03 82 01 24   52 15    72         AAND   X X
OBSERVATORY IN OBS31 55 19.85 129 47.01 81 12 03 82 01 24   52 15   105         AAND   X X
OBSERVATORY IN OBS31 55 19.85 129 47.01 81 12 03 82 01 24   52 15   165         AAND   X X
OBSERVATORY IN OBS11 55 03.20 130 04.00 81 12 03 82 01 24   52 15    59         NB     X
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CURRENT METER DATA SET NUMBER: 81-0057
YEAR:1981 VESSEL/AGENCY: DOBROCKY/AMAX

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
ALICE ARM	ALICE	55	25.50	129	40.03	81	04	11	81	07	27	108	20	50		AAND	X	X	X
ALICE ARM	ALICE	55	25.50	129	40.03	81	04	11	81	07	27	108	20	100		AAND	X	X	X
ALICE ARM	ALICE	55	25.50	129	40.03	81	04	11	81	07	27	108	20	150		AAND	X	X	X
ALICE ARM	ALICE	55	27.00	129	29.00	81	04	10	81	07	27	109	20	50		AAND	X	X	X
ALICE ARM	ALICE	55	27.00	129	29.00	81	04	10	81	07	27	109	20	100		AAND	X	X	X

CURRENT METER DATA SET NUMBER: 81-0058
YEAR:1981 VESSEL/AGENCY: DOBROCKY/AMAX

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
ALICE ARM	ALICE	55	25.50	129	40.03	81	07	30	81	09	25	56	20	75		AAND	X	X	X
ALICE ARM	ALICE	55	25.50	129	40.03	81	07	30	81	09	25	56	20	125		AAND	X	X	X
ALICE ARM	ALICE	55	27.00	129	29.00	81	07	29	81	09	24	57	20	50		AAND	X	X	X
ALICE ARM	ALICE	55	27.00	129	29.00	81	07	29	81	09	24	57	20	100		AAND	X	X	X

CURRENT METER DATA SET NUMBER: 81-0059
YEAR:1981 VESSEL/AGENCY: DOBROCKY/AMAX

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
ALICE ARM	E-4-2	55	27.00	129	29.00	81	09	27	81	11	22	57	20	50		AAND	X	X	X
ALICE ARM	E-4-2	55	27.00	129	29.00	81	09	27	81	11	22	57	20	100		AAND	X	X	X
ALICE ARM	SILL	55	25.50	129	40.30	81	09	27	81	11	21	55	20	50		AAND	X	X	X
ALICE ARM	SILL	55	25.50	129	40.30	81	09	27	81	11	21	55	20	100		AAND	X	X	X
ALICE ARM	SILL	55	25.50	129	40.30	81	09	27	81	11	21	55	20	150		AAND	X	X	X

CURRENT METER DATA SET NUMBER: 81-0060
YEAR:1981 VESSEL/AGENCY: DOBROCKY/AMAX

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
ALICE ARM	E-4-3	55	27.00	129	29.00	81	11	24	82	01	15	53	20	50		AAND	X	X	X
ALICE ARM	E-4-3	55	27.00	129	29.00	81	11	24	82	01	15	53	20	100		AAND	X	X	X
ALICE ARM	SILL	55	25.50	129	40.30	81	11	25	82	01	17	53	20	50		AAND	X	X	X
ALICE ARM	SILL	55	25.50	129	40.30	81	11	25	82	01	17	53	20	100		AAND	X	X	X
ALICE ARM	SILL	55	25.50	129	40.30	81	11	25	82	01	17	53	20	150		AAND	X	X	X

CURRENT METER DATA SET NUMBER: 81-0069
YEAR:1981 VESSEL/AGENCY: IOS,PARIZEAU

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
QUEEN CH.SOUND	Q06	51	51.95	130	29.27	81	09	04	82	01	31		30	50		RCM4			
QUEEN CH.SOUND	Q06	51	51.95	130	29.27	81	09	04	82	01	31		30	100		RCM4			
QUEEN CH.SOUND	Q06	51	51.95	130	29.27	81	09	04	82	01	31		30	270		RCM4			

CURRENT METER DATA SET NUMBER: 82-0034
YEAR:1982 VESSEL/AGENCY: IOS,PARIZEAU

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
QUEEN CH.SOUND	Q06	51	52.01	130	28.90	82	01	31	82	05	30		30	25		RCM4		X	X
QUEEN CH.SOUND	Q06	51	52.01	130	28.90	82	01	31	82	05	30		30	100		RCM4		X	X
ALICE ARM	AASIL	55	24.95	129	40.60	82	01	26	82	03	31	64	15	17		AAND		X	X
ALICE ARM	AASIL	55	24.95	129	40.60	82	01	26	82	03	10	42	15	17		AAND		X	X
OBSERVATORY IN	OBS32	55	19.85	129	47.01	82	01	25	82	02	22	27	15	14		AAND		X	X
OBSERVATORY IN	OBS32	55	19.85	129	47.01	82	01	25	82	01	31	5	15	44		AAND		X	X
OBSERVATORY IN	OBS32	55	19.85	129	47.01	82	01	25	82	03	31	65	15	104		AAND		X	X
OBSERVATORY IN	OBS22	55	05.50	129	59.10	82	01	26	82	03	30	62	15	11		AAND		X	X
OBSERVATORY IN	OBS22	55	05.50	129	59.10	82	01	26	82	03	30	62	15	52		AAND		X	X
OBSERVATORY IN	OBS22	55	05.50	129	59.10	82	01	26	82	03	30	62	15	102		AAND		X	X
OBSERVATORY IN	OBS12	55	03.20	130	04.00	82	01	26	82	03	30	63	15	29		AAND		X	X
OBSERVATORY IN	OBS11	55	03.20	130	04.00	82	01	26	82	03	30	63	15	69		NB		X	

CURRENT METER DATA SET NUMBER: 82-0036
YEAR:1982 VESSEL/AGENCY: VECTOR,IOS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
ALICE ARM	AASIL	55	24.95	129	40.60	82	06	12	82	09	01	80	15	14		AAND		X	X
ALICE ARM	AASIL	55	24.95	129	40.60	82	06	12	82	09	01	80	15	47		AAND		X	X
OBSERVATORY IN	OBS14	55	03.20	130	04.00	82	06	10	82	06	20	10	15	10		AAND		X	X
OBSERVATORY IN	OBS14	55	03.20	130	04.00	82	06	09	82	06	20	10	15	50		NB			
OBSERVATORY IN	OBS24	55	05.50	129	59.10	82	06	10	82	06	20	10	15	13		AAND		X	X

CURRENT METER DATA SET NUMBER: 82-0037
YEAR:1982 VESSEL/AGENCY: PARIZEAU,IOS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
ALICE ARM	AASIL	55	24.95	129	40.60	82	09	03	82	11	27	85	15	13		AAND		X	X
ALICE ARM	AASIL	55	24.95	129	40.60	82	09	03	82	11	27	85	15	43		AAND		X	X
OBSERVATORY IN	OBS15	55	03.20	130	04.00	82	08	31	82	11	27	87	15	19		AAND		X	X
OBSERVATORY IN	OBS15	55	03.20	130	04.00	82	08	31	82	09	12	11	15	59		NB			
OBSERVATORY IN	OBS25	55	05.50	129	59.10	82	08	31	82	11	26	87	15	12		AAND		X	X
OBSERVATORY IN	OBS25	55	05.50	129	59.10	82	08	31	82	11	26	87	15	52		AAND		X	X

OBSERVATORY IN	OBS25	55	05.50	129	59.10	82	08	31	82	11	26	87	15	102		AAND		X	X
OBSERVATORY IN	OBS35	55	19.85	129	47.01	82	09	03	82	11	27	85	15	16		AAND		X	X
OBSERVATORY IN	OBS35	55	19.85	129	47.01	82	09	03	82	11	27	85	15	48		AAND		X	X
OBSERVATORY IN	OBS35	55	19.85	129	47.01	82	09	03	82	11	27	85	15	108		AAND		X	X

CURRENT METER DATA SET NUMBER: 82-0038
YEAR:1982 VESSEL/AGENCY: VECTOR,IOS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
ALICE ARM	AASIL	55	24.95	129	40.60	82	11	28	83	01	16	48	15	15		AAND		X	X
ALICE ARM	AASIL	55	24.95	129	40.60	82	11	28	83	01	16	49	15	45		AAND		X	X
OBSERVATORY IN	OBS26	55	05.50	129	59.10	82	11	27	83	01	17	51	15	13		AAND		X	X
OBSERVATORY IN	OBS26	55	05.50	129	59.10	82	11	27	83	01	17	51	15	53		AAND		X	X
OBSERVATORY IN	OBS26	55	05.50	129	59.10	82	11	27	83	01	15	49	15	103		AAND		X	X
OBSERVATORY IN	OBS16	55	03.20	130	04.00	82	11	27	83	01	17	51	15	13		AAND		X	X
OBSERVATORY IN	OBS16	55	03.02	130	04.00	82	11	27	83	01	17	51	15	53		NB		X	
OBSERVATORY IN	OBS36	55	19.85	129	47.01	82	11	28	83	01	16	49	15	76		AAND		X	X
OBSERVATORY IN	OBS36	55	19.85	129	47.01	82	11	28	83	01	16	49	15	104		AAND		X	X
OBSERVATORY IN	OBS36	55	19.85	129	47.01	82	11	28	83	01	16	49	15	164		AAND		X	X

CURRENT METER DATA SET NUMBER: 82-0039
YEAR:1982 VESSEL/AGENCY: VECTOR,IOS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
ALICE ARM	AASIL	55	24.95	129	40.60	82	04	01	82	06	10	70	15	15		AAND		X	X
ALICE ARM	AASIL	55	24.95	129	40.60	82	04	01	82	06	10	70	15	45		AAND		X	X
OBSERVATORY IN	OBS33	55	19.85	129	47.01	82	04	01	82	06	10	70	15	74		AAND		X	X
OBSERVATORY IN	OBS13	55	03.02	130	04.00	82	03	31	82	06	09	70	15	20		AAND		X	X
OBSERVATORY IN	OBS13	55	03.20	130	04.00	82	03	31	82	06	09	70	15	60		NB			
OBSERVATORY IN	OBS23	55	05.50	129	59.10	82	03	31	82	06	01	62	15	58		AAND		X	X
OBSERVATORY IN	OBS23	55	05.50	129	59.10	82	03	31	82	06	09	70	15	108		AAND		X	X

CURRENT METER DATA SET NUMBER: 82-0046
YEAR:1982 VESSEL/AGENCY: IOS,PARIZEAU

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
QUEEN CH.SOUND	Q05	51	08.30	129	34.50	82	04	21	82	09	20		30	50		RCM4	X	X	X
QUEEN CH.SOUND	Q05	51	08.30	129	34.50	82	04	21	82	09	20		30	100		RCM4		X	X
QUEEN CH.SOUND	Q05	51	08.30	129	34.50	82	04	21	82	09	20		30	150		RCM4	X	X	X

CURRENT METER DATA SET NUMBER: 82-0051
YEAR:1982 VESSEL/AGENCY: IOS,PARIZEAU

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
QUEEN CH.SOUND	G01	51	36.04	128	53.00	82	05	29	82	09	22		15	20	50	RCM4		X	X
QUEEN CH.SOUND	G01	51	36.04	128	53.00	82	05	29	82	09	22		15	45	50	RCM4		X	X
QUEEN CH.SOUND	G03	51	30.60	128	52.91	82	05	29	82	09	22		15	20	52	RCM4		X	X
QUEEN CH.SOUND	G03	51	30.60	128	52.91	82	05	29	82	09	22		15	47	52	RCM4		X	X
QUEEN CH.SOUND	G04	51	26.83	128	52.95	82	05	29	82	09	22		15	20	158	RCM4	X	X	X
QUEEN CH.SOUND	G04	51	26.83	128	52.95	82	05	29	82	09	22		15	50	158	RCM4		X	X
QUEEN CH.SOUND	G04	51	26.83	128	52.95	82	05	29	82	09	22		15	100	158	RCM4		X	X
QUEEN CH.SOUND	G04	51	26.83	128	52.95	82	05	29	82	09	22		15	153	158	RCM4		X	X
QUEEN CH.SOUND	G05	51	21.75	128	54.88	82	05	29	82	09	21		15	150	240	RCM4		X	X
QUEEN CH.SOUND	G5A	51	21.27	128	52.40	82	05	29	82	06			4	5	233	ENDE		X	X
QUEEN CH.SOUND	G5A	51	21.27	128	52.40	82	05	29	82	09	21		15	7	233	CMDR		X	
QUEEN CH.SOUND	G5S	51	21.15	128	53.45	82	05	28	82	09	16		15	5	242	VMCM		X	
QUEEN CH.SOUND	G06	51	29.38	128	28.11	82	05	31	82	09	20		15	20	107	RCM4		X	X
QUEEN CH.SOUND	G06	51	29.38	128	28.11	82	05	31	82	09	20		15	50	107	RCM4		X	X
QUEEN CH.SOUND	G07	51	39.94	128	36.25	82	05	31	82	09	19		15	20	39	RCM4		X	X
QUEEN CH.SOUND	G07	51	39.94	128	36.25	82	05	31	82	09	19		15	34	39	RCM4	X	X	X
QUEEN CH.SOUND	Q06	51	51.96	130	29.04	82	05	30	82	09	18		15	25	280	RCM4	X	X	X
QUEEN CH.SOUND	Q06	51	51.96	130	29.04	82	05	30	82	09	18		15	100	280	RCM4		X	X
QUEEN CH.SOUND	Q06	51	51.96	130	29.04	82	05	30	82	09	18		15	250	280	RCM4		X	X
QUEEN CH.SOUND	Q09	52	06.52	130	38.84	82	05	30	82	09	18		15	15	225	CMDR		X	
QUEEN CH.SOUND	Q09	52	06.52	130	38.84	82	05	30	82	09	18		15	215	225	RCM4		X	X
QUEEN CH.SOUND	Q10	51	51.07	129	34.43	82	05	30	82	09	20		15	20	275	RCM4	X	X	X
QUEEN CH.SOUND	Q10	51	51.07	129	34.43	82	05	30	82	09	20		15	100	275	RCM4		X	X
QUEEN CH.SOUND	Q10	51	51.07	129	34.43	82	05	30	82	09	20		15	250	275	RCM4		X	X
QUEEN CH.SOUND	Q11	51	50.16	128	33.70	82	05	31	82	09	19		15	20	139	RCM4	X	X	X
QUEEN CH.SOUND	Q11	51	50.16	128	33.70	82	05	31	82	09	19		15	100	139	RCM4	X	X	X
QUEEN CH.SOUND	Q12	51	00.30	128	42.00	82	06	01	82	09	21		15	15	74	CMDR		X	
CHATHAM SOUND	R01	54	11.61	130	24.52	82	05	22	82	09	17		15	16	118	CMDR		X	
CHATHAM SOUND	R02	54	18.40	130	34.25	82	05	22	82	09	17		15	15	100	CMDR		X	
CHATHAM SOUND	R01	54	16.90	130	49.20	82	05	22	82	09	17		15	15	139	CMDR		X	

CURRENT METER DATA SET NUMBER: 82-0052
YEAR:1982 VESSEL/AGENCY: DOBROCKY/AMAX

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
ALICE ARM	2E4	55	27.00	129	29.00	82	01	21	82	03	08	46	20	50		AAND	X	X	X
ALICE ARM	1E4	55	27.00	129	29.00	82	01	21	82	03	08	46	20	100		AAND	X	X	X
ALICE ARM	SILL	55	25.30	129	40.18	82	01	22	82	03	05	41	20	50		AAND	X	X	X
ALICE ARM	SILL	55	25.30	129	40.18	82	01	22	82	03	05	41	20	100		AAND	X	X	X
ALICE ARM	SILL	55	25.30	129	40.18	82	01	22	82	03	05	41	20	150		AAND	X	X	X

CURRENT METER DATA SET NUMBER: 82-0053
YEAR:1982 VESSEL/AGENCY: DOBROCKY/AMAX

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
ALICE ARM	2E4	55	27.00	129	29.00	82	03	16	82	05	14	59	20	50		AAND	X	X	X
ALICE ARM	1E4	55	27.00	129	29.00	82	03	16	82	05	14	59	20	100		AAND	X	X	X
ALICE ARM	SILL	55	25.30	129	40.18	82	03	09	82	05	16	67	20	50		AAND	X	X	X
ALICE ARM	SILL	55	25.30	129	40.18	82	03	09	82	05	16	67	20	100		AAND	X	X	X
ALICE ARM	SILL	55	25.30	129	40.18	82	03	09	82	05	16	67	20	150		AAND	X	X	X

CURRENT METER DATA SET NUMBER: 82-0054
YEAR:1982 VESSEL/AGENCY: DOBROCKY/AMAX

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
ALICE ARM	G8.5	55	26.42	129	32.18	82	05	17	82	07	08	52	20	50		AAND	X	X	X
ALICE ARM	G8.5	55	26.42	129	32.18	82	05	17	82	07	08	52	20	100		AAND	X	X	X
ALICE ARM	SILL	55	25.30	129	40.18	82	05	17	82	07	09	53	20	50		AAND	X	X	X
ALICE ARM	SILL	55	25.30	129	40.18	82	05	17	82	07	09	53	20	100		AAND	X	X	X
ALICE ARM	SILL	55	25.30	129	40.18	82	05	17	82	07	09	53	20	150		AAND	X	X	X

CURRENT METER DATA SET NUMBER: 82-0055
YEAR:1982 VESSEL/AGENCY: DOBROCKY/AMAX

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
ALICE ARM	G8.5	55	26.42	129	32.18	82	07	10	82	09	18	70	20	50		AAND	X	X	X
ALICE ARM	G8.5	55	26.42	129	32.18	82	07	10	82	09	18	70	20	100		AAND	X	X	X
ALICE ARM	SILL	55	25.30	129	40.18	82	07	12	82	09	16	66	20	50		AAND	X	X	X
ALICE ARM	SILL	55	25.30	129	40.18	82	07	12	82	09	16	66	20	100		AAND	X	X	X
ALICE ARM	SILL	55	25.30	129	40.18	82	07	12	82	09	16	66	20	150		AAND	X	X	X

CURRENT METER DATA SET NUMBER: 82-0056
YEAR:1982 VESSEL/AGENCY: DOBROCKY/AMAX

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
ALICE ARM	G8.5	55	26.42	129	32.18	82	09	19	82	12	10	82	20	50		AAND	X	X	X
ALICE ARM	G8.5	55	26.42	129	32.18	82	09	19	82	12	10	82	20	100		AAND	X	X	X
ALICE ARM	SILL	55	25.30	129	40.18	82	09	19	82	12	12	84	20	50		AAND	X	X	X
ALICE ARM	SILL	55	25.30	129	40.18	82	09	19	82	12	12	84	20	100		AAND	X	X	X
ALICE ARM	SILL	55	25.30	129	40.18	82	09	19	82	12	12	84	20	150		AAND	X	X	X

CURRENT METER DATA SET NUMBER: 82-0057
YEAR:1982 VESSEL/AGENCY: DOBROCKY/AMAX

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
ALICE ARM	G8.5	55	26.42	129	32.18	82	12	12	83	04	15	125	20	50		AAND	X	X	X
ALICE ARM	G8.5	55	26.42	129	32.18	82	12	12	83	04	15	125	20	100		AAND	X	X	X
ALICE ARM	SILL	55	25.30	129	40.18	82	12	14	83	04	15	123	20	50		AAND	X	X	X
ALICE ARM	SILL	55	25.30	129	40.18	82	12	14	83	04	15	123	20	100		AAND	X	X	X
ALICE ARM	SILL	55	25.30	129	40.18	82	12	14	83	04	15	123	20	150		AAND	X	X	X

CURRENT METER DATA SET NUMBER: 83-0014
YEAR:1983 VESSEL/AGENCY: VECTOR,IOS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
ALICE ARM	AASIL	55	24.95	129	40.60	83	01	17	83	04	09	81	15	17		AAND		X	X
ALICE ARM	AASIL	55	24.95	129	40.60	83	01	17	83	04	10	83	15	47		AAND		X	X
OBSERVATORY IN	OBS37	55	19.85	129	47.01	83	01	17	83	04	15	88	15	25		AAND		X	X
OBSERVATORY IN	OBS37	55	19.85	129	47.01	83	01	17	83	04	15	88	15	55		AAND		X	X
OBSERVATORY IN	OBS37	55	19.85	129	47.01	83	01	17	83	04	15	88	15	115		AAND		X	X
OBSERVATORY IN	OBS17	55	03.20	130	04.00	83	01	18	83	04	14	86	15	25		AAND		X	X
OBSERVATORY IN	OBS17	55	03.02	130	04.00	83	01	18	83	04	14	86	15	65		NB		X	
OBSERVATORY IN	OBS27	55	05.50	129	59.10	83	01	18	83	04	14	86	15	14		AAND		X	X
OBSERVATORY IN	OBS27	55	05.50	129	59.10	83	01	18	83	04	14	86	15	54		AAND		X	X
OBSERVATORY IN	OBS27	55	05.50	129	59.10	83	01	18	83	04	14	86	15	108		AAND		X	X

CURRENT METER DATA SET NUMBER: 83-0035
YEAR:1983 VESSEL/AGENCY: PARIZEAU,IOS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
HECATE STRAIT	R04	53	57.0	130	53.4	83	05	10	83	09	18	75	15	20	64	CMDR		X	
HECATE STRAIT	R05	53	56.9	131	04.5	83	05	10	83	09	18	131	15	20	82	CMDR		X	
HECATE STRAIT	R05	53	56.8	131	04.5	83	05	10	83	09	18	3	15	50	82	AAND		X	X
HECATE STRAIT	R07	53	56.1	131	34.1	83	05	10	83	09	19	132	15	9	20	CMDR		X	
HECATE STRAIT	W01	53	20.0	130	19.1	83	05	11	83	09	20	131	15	25	130	CMDR		X	
HECATE STRAIT	W2E	53	17.9	130	36.6	83	05	11	83	09	20	132	15	100	168	AAND		X	X
HECATE STRAIT	W02	53	16.7	130	41.6	83	05	11	83	09	20	131	15	25	185	CMDR		X	
HECATE STRAIT	W02	53	16.7	130	41.6	83	05	11	83	09	20	131	15	50	185	AAND	X	X	X
HECATE STRAIT	W02	53	16.7	130	41.6	83	05	11	83	09	20	132	15	100	185	AAND		X	X
HECATE STRAIT	W02	53	16.7	130	41.6	83	05	11	83	09	20	132	15	180	185	AAND		X	X
HECATE STRAIT	W2S	53	17.0	130	40.7	83	05	11	83	10		?	15	5	185	M-Mc		X	
HECATE STRAIT	W04	53	13.2	131	03.5	83	05	11	83	09	20	3	15	10	51	GEOD		X	
HECATE STRAIT	W04	53	13.2	131	03.5	83	05	11	83	09	20	132	15	25	51	CMDR		X	
HECATE STRAIT	W04	53	13.2	131	03.5	83	05	11	83	09	20	132	15	41	51	CMDR		X	
HECATE STRAIT	W05	53	10.4	131	16.5	83	05	14	83	09	20	128	15	9	39	M_Mc	X		
HECATE STRAIT	W05	53	10.4	131	16.5	83	05	14	83	09	20	128	15	9	39	AAND	X	X	
HECATE STRAIT	W05	53	10.4	131	16.5	83	05	14	83	09	20	128	15	10	39	AAND	X	X	X
HECATE STRAIT	W5S	53	10.8	131	16.8	83	05	12	83	09	20	77	15	5	35	M_Mc		X	
HECATE STRAIT	W06	53	09.1	131	27.9	83	05	12	83	09	20	129	15	10	22	CMDR		X	
HECATE STRAIT	H04	52	42.5	131	21.1	83	05	12	83	09	20	121	15	106	137	AAND		X	X
HECATE STRAIT	M01	52	35.5	129	38.7	83	05	14	83	09	26	135	15	21	158	CMDR		X	
HECATE STRAIT	M01	52	35.5	129	38.7	83	05	14	83	09	26	79	15	46	158	AAND	X	X	X
HECATE STRAIT	M01	52	35.5	129	38.7	83	05	14	83	09	26	135	15	96	158	AAND		X	X
HECATE STRAIT	M01	52	35.5	129	38.7	83	05	14	83	09	26	135	15	146	158	AAND		X	X
HECATE STRAIT	M02	52	33.1	129	57.4	83	05	14	83	09	26	135	15	25	256	CMDR		X	
HECATE STRAIT	M02	52	33.1	129	57.4	83	05	14	83	09	26	135	15	100	256	AAND		X	X
HECATE STRAIT	M02	52	33.1	129	57.4	83	05	14	83	09	26	35	15	150	256	AAND		X	X
HECATE STRAIT	M02	52	33.1	129	57.4	83	05	14	83	09	26	46	15	250	256	AAND		X	X
HECATE STRAIT	M03	52	31.1	130	12.1	83	05	13	83	09	27	136	15	50	299	AAND	X	X	X
HECATE STRAIT	M03	52	31.1	130	12.1	83	05	13	83	09	27	136	15	100	299	AAND		X	X
HECATE STRAIT	M03	52	31.1	130	12.1	83	05	13	83	09	27	97	15	150	299	AAND		X	X
HECATE STRAIT	M03	52	31.1	130	12.1	83	05	13	83	09	27	121	15	250	299	AAND		X	X
HECATE STRAIT	M03	52	31.1	130	12.1	83	05	13	83	09	27	127	15	293	299	AAND		X	X
HECATE STRAIT	M04	52	27.8	130	29.6	83	05	13	83	09	26	119	15	100	182	AAND		X	X
HECATE STRAIT	M04	52	27.8	130	29.6	83	05	13	83	09	26	119	15	150	182	AAND		X	X
HECATE STRAIT	M05	52	23.5	130	57.4	83	05	13	83	09	24	129	15	50	135	AAND	X	X	X
HECATE STRAIT	M05	52	23.5	130	57.4	83	05	13	83	09	24	133	15	100	135	AAND		X	X
HECATE STRAIT	M06	52	21.9	131	05.6	83	05	13	83	09	24	119	15	25	120	CMDR		X	
HECATE STRAIT	M06	52	21.9	131	05.6	83	05	13	83	09	24	124	15	50	120	AAND	X	X	X

CURRENT METER DATA SET NUMBER: 83-0036
YEAR:1983 VESSEL/AGENCY: IOS,PARIZEAU

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
HECATE STRAIT	M01	52	35.4	129	38.9	83	9	28	84	01	13	107	15	50	162	AAND	X	X	X
HECATE STRAIT	M01	52	35.4	129	38.9	83	9	28	84	01	13	107	15	100	162	AAND		X	X
HECATE STRAIT	M01	52	25.4	129	38.9	83	9	28	84	01	13	107	15	150	162	AAND		X	X
HECATE STRAIT	M1E	52	40.0	129	16.7	83	9	28	84	01	13	107	15	25	162	AAND		X	
HECATE STRAIT	M02	52	33.1	129	57.4	83	9	28	84	01	13	107	15	50	252	AAND		X	X
HECATE STRAIT	M02	52	33.1	129	57.4	83	9	28	84	01	13	107	15	100	252	AAND		X	X
HECATE STRAIT	M02	52	33.1	129	57.4	83	9	28	84	01	13	107	15	247	252	AAND		X	X
HECATE STRAIT	M03	52	31.3	130	12.4	83	9	28	84	01	13	107	15	50	296	AAND	X	X	X
HECATE STRAIT	M03	52	31.3	130	12.4	83	9	28	84	01	13	107	15	100	296	AAND		X	X
HECATE STRAIT	M03	52	31.3	130	12.4	83	9	28	84	01	13	107	15	150	296	AAND		X	X
HECATE STRAIT	M03	52	31.3	130	12.4	83	9	28	84	01	13	107	15	250	296	AAND		X	X
HECATE STRAIT	M03	52	31.3	130	12.4	83	9	27	84	01	13	107	15	291	296	AAND		X	X
HECATE STRAIT	M04	52	27.9	130	29.5	83	9	27	84	01	13	107	15	50	177	CMDR		X	
HECATE STRAIT	M04	52	27.9	130	29.5	83	9	27	84	01	13	107	15	100	177	AAND		X	X
HECATE STRAIT	M04	52	27.9	130	29.5	83	9	27	84	01	13	107	15	150	177	AAND		X	X
HECATE STRAIT	M05	52	22.5	130	57.4	83	9	27	84	01	13	27	15	50	125	AAND	X	X	X
HECATE STRAIT	M05	52	22.5	130	57.4	83	9	27	84	01	13	107	15	100	125	AAND		X	X
HECATE STRAIT	M06	52	22.0	131	5.2	83	9	27	84	01	13	107	15	25	116	CMDR		X	
HECATE STRAIT	M06	52	22.0	131	5.2	83	9	27	84	01	13	107	15	100	116	AAND	X	X	X
HECATE STRAIT	W01	53	19.6	130	20.2	83	9	22	84	01	14	113	15	22	127	CMDR		X	
HECATE STRAIT	W02	53	16.4	130	41.8	83	9	22	84	01	14	113	15	20	175	CMDR		X	
HECATE STRAIT	W02	53	16.4	130	41.8	83	9	22	84	01	14	113	15	95	175	AAND		X	X
HECATE STRAIT	W02	53	16.4	130	41.8	83	9	22	84	01	14	113	15	170	175	AAND		X	X
HECATE STRAIT	W2E	53	17.6	130	36.8	83	9	22	84	01	14	113	15	28	162	CMDR		X	
HECATE STRAIT	W2E	53	17.6	130	36.8	83	9	22	84	01	14	113	15	53	162	AAND	X	X	X
HECATE STRAIT	W2E	53	17.6	130	36.8	83	9	22	84	01	14	113	15	103	162	AAND		X	X
HECATE STRAIT	W03	53	14.0	130	51.8	83	9	22	84	01	14	113	15	50	117	AAND	X	X	X
HECATE STRAIT	W03	53	14.0	130	51.8	83	9	22	84	01	14	113	15	100	117	AAND		X	X
HECATE STRAIT	W04	53	13.1	131	4.0	83	9	22	84	01	14	114	15	25	45	CMDR		X	
HECATE STRAIT	W04	53	13.1	131	4.0	83	9	22	84	01	14	114	15	35	45	CMDR		X	
HECATE STRAIT	R05	53	57.0	131	4.6	83	9	19	84	01	19	62	15	20	78	CMDR		X	

CURRENT METER DATA SET NUMBER: 84-0001
YEAR:1984 VESSEL/AGENCY: IOS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
HECATE STRAIT	M01	52	35.5	129	38.4	84	1	18	84	4	10	82	15	50	162	AAND	X	X	X
HECATE STRAIT	M01	52	35.5	129	38.4	84	1	18	84	4	10	82	15	100	162	AAND		X	X
HECATE STRAIT	M01	52	35.5	129	38.4	84	1	18	84	4	10	82	15	150	162	AAND		X	X
HECATE STRAIT	M02	52	33.4	129	56.8	84	1	18	84	4	10	82	15	50	252	AAND		X	X
HECATE STRAIT	M02	52	33.4	129	56.8	84	1	18	84	4	10	82	15	100	252	AAND		X	X
HECATE STRAIT	M02	52	33.4	129	56.9	84	1	18	84	4	10	82	15	247	252	AAND		X	X
HECATE STRAIT	M03	52	31.2	130	11.8	84	1	15	84	4	10	86	15	50	296	AAND	X	X	X
HECATE STRAIT	M03	52	31.2	130	11.8	84	1	18	84	4	10	83	15	100	296	AAND		X	X
HECATE STRAIT	M03	52	31.2	130	11.8	84	1	18	84	4	10	83	15	150	296	AAND		X	X
HECATE STRAIT	M03	52	31.2	130	11.8	84	1	18	84	4	10	83	15	250	296	AAND		X	X
HECATE STRAIT	M03	52	31.2	130	11.8	84	1	14	84	4	10	87	15	290	296	AAND		X	X
HECATE STRAIT	M04	52	27.9	130	28.9	84	1	14	84	4	10	88	15	50	177	CMDR		X	
HECATE STRAIT	M04	52	27.9	130	28.9	84	1	16	84	4	10	85	15	100	177	AAND		X	X
HECATE STRAIT	M04	52	27.9	130	28.9	84	1	16	84	4	10	85	15	150	177	AAND		X	X
HECATE STRAIT	M05	52	23.8	130	57.3	84	1	18	84	4	10	83	15	50	125	AAND	X	X	X
HECATE STRAIT	M05	52	23.8	130	57.3	84	1	18	84	4	10	83	15	100	125	AAND		X	X
HECATE STRAIT	M06	52	22.2	131	6.2	84	1	18	84	4	10	83	15	25	116	CMDR		X	
HECATE STRAIT	M06	52	22.2	131	6.2	84	1	18	84	4	10	83	15	100	116	AAND	X	X	X
HECATE STRAIT	M1E	52	40.0	129	16.7	84	1	19	84	4	10	82	15	21	158	CMDR		X	
HECATE STRAIT	R05	53	56.4	131	2.6	84	1	19	84	4	12	42	15	27	80	CMDR		X	
HECATE STRAIT	R05	53	56.4	131	2.6	84	1	19	84	4	12	83	15	65	80	AAND		X	X
HECATE STRAIT	W01	52	19.6	130	20.1	84	1	17	84	4	11	84	15	25	129	CMDR		X	
HECATE STRAIT	W02	53	16.6	130	41.5	84	1	17	84	4	11	85	15	25	180	CMDR		X	
HECATE STRAIT	W02	53	16.6	130	41.5	84	1	17	84	4	11	85	15	100	180	AAND		X	X
HECATE STRAIT	W02	53	16.6	130	41.5	84	1	14	84	4	11	88	15	175	180	AAND		X	X

HECATE STRAIT	W03	53	14.1	130	51.4	84	1	17	84	4	11	85	15	25	118	CMDR		X	
HECATE STRAIT	W03	53	14.1	130	51.4	84	1	17	84	4	11	85	15	50	118	AAND	X	X	X
HECATE STRAIT	W03	53	14.1	130	51.4	84	1	17	84	4	11	85	15	100	118	AAND		X	X
HECATE STRAIT	W04	53	13.1	131	4.0	84	1	17	84	4	11	85	15	25	45	CMDR		X	
HECATE STRAIT	W04	53	13.1	131	4.0	84	1	17	84	4	11	85	15	35	45	CMDR		X	
HECATE STRAIT	W2E	53	17.9	130	36.6	84	1	17	84	4	11	17	15	24	164	M-Mc		X	
HECATE STRAIT	W2E	53	17.9	130	36.6	84	1	17	84	4	11	7	15	25	164	CMDR		X	
HECATE STRAIT	W2E	53	17.9	130	36.6	84	1	17	84	4	11	85	15	50	164	AAND	X	X	X
HECATE STRAIT	W2E	53	17.9	130	36.6	84	1	17	84	4	11	8	15	100	164	AAND		X	X

CURRENT METER DATA SET NUMBER: 84-0002
YEAR:1984 VESSEL/AGENCY: IOS,PARIZEAU

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
DIXON ENTRANCE	R05	53	56.73	131	04.47	84	04	14	84	10	21	190	30	25	78	CMDR		X	
DIXON ENTRANCE	R05	53	56.73	131	04.47	84	04	14	84	10	21	190	30	63	78	AAND		X	X
DIXON ENTRANCE	D01	54	38.38	132	05.71	84	04	16	84	08	22	128	30	20	135	CMDR		X	
DIXON ENTRANCE	D01	54	38.38	132	05.71	84	04	16	84	08	22	128	30	48	135	CMDR		X	
DIXON ENTRANCE	D01	54	38.38	132	05.71	84	04	16	84	08	22	128	30	98	135	AAND	X	X	X
DIXON ENTRANCE	D02	54	35.18	132	07.72	84	04	16	84	08	29	135	30	146	169	AAND		X	X
DIXON ENTRANCE	D03	54	32.84	132	03.90	84	04	18	84	09	19	154	30	150	295	AAND		X	X
DIXON ENTRANCE	D04	54	26.72	132	00.49	84	04	18	84	10	20	185	30	52	294	AAND	X	X	X
DIXON ENTRANCE	D04	54	26.72	132	00.49	84	04	18	84	10	20	185	30	152	294	AAND		X	X
DIXON ENTRANCE	D04	54	26.72	132	00.49	84	04	18	84	10	20	185	30	279	294	AAND		X	X
DIXON ENTRANCE	D05	54	16.25	131	54.98	84	04	18	84	10	20	185	30	50	208	AAND	X	X	X
DIXON ENTRANCE	D05	54	16.25	131	54.98	84	04	18	84	10	20	185	30	150	208	AAND		X	X
DIXON ENTRANCE	D06	54	12.18	131	56.94	84	04	18	84	10	20	185	30	53	118	CMDR		X	
DIXON ENTRANCE	D06	54	12.18	131	56.94	84	04	18	84	10	20	185	30	103	118	CMDR		X	
DIXON ENTRANCE	D07	54	07.87	131	50.99	84	04	18	84	10	20	185	30	20	30	CMDR		X	
DIXON ENTRANCE	D7S	54	07.80	131	51.23	84	04	14	84	10	20		30	5	31	M-MC		X	
DIXON ENTRANCE	D09	54	29.02	131	40.40	84	04	16	84	10	21		30	52	305	AAND		X	X
DIXON ENTRANCE	D09	54	29.02	131	40.40	84	04	16	84	10	21	188	30	152	305	AAND		X	X
DIXON ENTRANCE	D10	54	27.03	132	16.94	84	04	18	84	10	19	184	30	50	356	AAND		X	X
DIXON ENTRANCE	D10	54	27.03	132	16.94	84	04	18	84	10	19	0	30	150	356	AAND		X	X
DIXON ENTRANCE	D11	54	36.56	132	41.63	84	04	18	84	04	21	3	30	50	136	AAND	X	X	X
DIXON ENTRANCE	D11	54	36.56	132	41.63	84	04	18	84	04	21	3	30	100	136	AAND		X	X
DIXON ENTRANCE	D12	54	29.35	132	38.06	84	04	18	84	10	11	176	30	150	371	AAND		X	X
DIXON ENTRANCE	D12	54	29.35	132	38.06	84	04	18	84	10	11	176	30	356	371	AAND		X	X
DIXON ENTRANCE	D13	54	21.19	132	34.63	84	04	18	84	10	19	184	30	45	263	AAND	X	X	X
DIXON ENTRANCE	D13	54	21.19	132	34.63	84	04	18	84	10	19	184	30	145	263	AAND		X	X
DIXON ENTRANCE	D14	54	13.03	132	29.95	84	04	21	84	10	19	181	30	59	124	AAND	X	X	
DIXON ENTRANCE	D14	54	13.03	132	29.95	84	04	21	84	10	19	181	30	109	124	AAND		X	X
DIXON ENTRANCE	D15	54	33.07	131	21.28	84	04	16	84	10	21	188	30	22	110	CMDR		X	
DIXON ENTRANCE	D15	54	33.07	131	21.28	84	04	16	84	10	21	188	30	52	110	CMDR		X	

11.3 WATER-LEVEL DATA

Table 3 contains a cross-reference of CHS stations with assigned data set ID numbers. Following Table 3 are the listings which contain the following information:

AREA	Area
STN	Station number; generally as assigned by the originating agency.
LAT, LONG	In degrees and minutes.
START/STOP	Year, month and day instrument recorded over.
EFF LEN	Effective record length, in days.
DT (MN)	Sampling rate in minutes.
INST & WATER DPTH	In metres.
INSTR TYPE	AAND - Aanderaa AM12 - Applied Microsystems Ltd. 12A AMS - Applied Microsystems Ltd. BASS - Bass Engineering optical lever FOXB - Foxboro HWK - HWK float LEGE - Lege LEOP - Leopold Stevens MECH - shore-based gauge, temporary or permanent OTT - Ott gauge, either float or potentiometric OTTB - Ottboro RICH - Richard SDAT - SeaData STAF - Tide staff STEV - Stevens TG2A - Aanderaa TG2A TG3A - Aanderaa TG3A TG4A - Aanderaa TG4A WLR5 - Aanderaa WLR5 750A - Applied Microsystems Ltd. 750A
ADDIT SENSOR	Parameters measured qualified by: X - measurements of this parameter were made CA - possible calibration problems S - suspect readings C - constant readings 0 - zero or obviously bad readings

Blank entries indicate unavailable or inappropriate data.
? signifies data which are either unknown or may be suspect; for example, a location which plots on land.
In cases where water level data have been collected intermittently or continuously over more than one year, one I.D. number has been used to represent the entire data set.

TABLE 3: CHS WATER LEVEL STATIONS IN THE AREA OF THIS DATA COMPILATION, AND THE CORRESPONDING PERIOD(S) OF MEASUREMENTS AND DATA SET ID NUMBERS.

Stn. No.	General Area	Water-Level Gauge Site	Measurement Periods (ID Number)
8416	Queen Charlotte Sound	Shushertie Bay	July 5,1931-Jan 31,1932 (31-0003)
8458	Queen Charlotte Strait	Seymour Inlet	May 12-June 9,1960 (60-0017)
8464	Queen Charlotte Strait	Seymour Inlet	May 11-June 9,1960 (60-0017)
8470	Queen Charlotte Strait	Seymour Inlet	May 9-June 11,1960 (60-0017)
8476	Queen Charlotte Strait	Belize Inlet	May 9-June 7,1960 (60-0017)
8482	Queen Charlotte Strait	Belize Inlet	May 17-June 16,1960 (60-0017)
8488	Queen Charlotte Strait	Belize Inlet	May 10-June 7,1960 (60-0017)
8805	Queen Charlotte Sound	Egg Island	June 22-Oct 3,1962 (62-0077); July 30-Oct 9,1963 (62-0027)
8810	Queen Charlotte Sound	Leroy Bay	May 22-Aug 22,1947 (47-0003); Aug 1-Sept 30,1962 (62-0027)
8830	Fitz Hugh Sound	Draney Inlet	Aug 3-Sept 30,1959 (59-0017)
8840	Fitz Hugh Sound	Wadhams	June 14,1905-Oct 2,1911 (05-0003); May 24-Oct 30,1915 (15-0003)
8860	Fitz Hugh Sound	Addenbroke Island	Sept 9-12,1942 (42-0003); July 31-Sept 3,1959 (59-0017)
8870	Fitz Hugh Sound	Namu	Aug 6-Oct 28,1909 (09-0001)
8873	Burke Channel	Fougner Bay	May 19-31,1964 (64-0018)
8906	Queen Charlotte Sound	Gosling Island	July 4-Sept 8,1959 (59-0017)
8909	Queen Charlotte Sound	Goose Island	June 28-Aug 20,1928 (28-0003)
8928	Burke Channel	Croyden Bay	Apr 30-May 16,1964 (64-0018)
8935	Burke Channel	Whiskey Bay	Apr 10-27,1964(64-0018)
8937	North Bentinck Arm	Bella Coola	July 22-Oct 24,1909 (09-0001); Apr 24,1956-May 20,1957 (56-0017); May 1,1964-June 30,1967 (64-0023)
8958	Queen Charlotte Sound	Forit Bay	Aug 9-Sept 19,1983 (83-0021)
8962	Dean Channel	Ocean Falls	Oct 29-Nov 17,1911 and Apr 22-May 11,1912 (11-0002); May 12-Nov 4, 1922 and July 16-Oct 5,1923 (22-0001)
8970	Dean Channel	Kimsquit	Aug 31-Sept 21,1956 (56-0015)
8974	Queen Charlotte Sound	Shearwater	Sept 4-29,1983 (83-0021)
8976	Queen Charlotte Sound	Bella Bella	July 30,1905-Apr 30,1906 and June 1-Aug 31,1906 (05-0002); Jan 1-Dec 31,1907 (07-0002); July 15,1961-present (61-0023)
8978	Queen Charlotte Sound	Kynumpt Harbour	July 9-Sept 4,1983 (83-0021)
8981	Queen Charlotte Sound	Troup Passage	May 30-June 19 and July 8-Aug 26,1968 (68-0027)
8984	Dean Channel	Shack Bay	May 9-June 3,1956 (56-0017)
9005	Queen Charlotte Sound	Port Blackney	June 27-Sept 18,1928 (28-0003)
9010	Queen Charlotte Sound	Tom Bay	Aug 1-Sept 17,1960 (60-0017)
9020	Queen Charlotte Sound	Griffin Passage	May 19-June 14,1960 (60-0017)
9026	Queen Charlotte Sound	Heathorn Bay	Sept 19-Oct 5,1960 (60-0017)
9028	Queen Charlotte Sound	David Bay	Aug 20-31,1961 (61-0023)
9035	Queen Charlotte Sound	Klemtu	May 17-June 15,1960 (60-0017)
9053	Princess Royal Channel	Butedale	July 4-Sept 12,1953 and June 23-Aug 6,1954 (53-0016)
9056	Queen Charlotte Sound	Higgins Passage	July 23-Aug 21,1979 (79-0060)
9060	Queen Charlotte Sound	Meyers Narrows	May 31-Sept 5,1924 (24-0002); May 22-July 25,1967 (67-0024) July 1-16,1969(69-0032)
9063	Queen Charlotte Sound	Milne Island	July 18-Aug 15,1961 (61-0023); June 22-Aug 15,1979 (79-0060)
9067	Queen Charlotte Sound	Smithers Island	June 16-July 20,1979 (79-0060)
9077	Hecate Strait	McKenney Islands	Apr 27-Aug 19,1960 and July 4-Oct 5,1961 (60-0017)
9080	Hecate Strait	Borrowman Bay	Aug 7-Sept 16,1922 and July 17-Oct 5,1923 (22-0001)

TABLE 3: CHS WATER LEVEL STATIONS IN THE AREA OF THIS DATA COMPILATION, AND THE CORRESPONDING PERIOD(S) OF MEASUREMENTS AND DATA SET ID NUMBERS. (Cont'd)

Stn. No.	General Area	Water-Level Gauge Site	Measurement Periods (ID Number)
9090	Hecate Strait	Surf Inlet	July 16-Sept 19,1914 (14-0003)
9105	Hecate Strait	Gillen Harbour	June 21-Aug 30,1977 (77-0068)
9115	Hecate Strait	Bernard Harbour	July 9-Sept 9,1953 (53-0016)
9130	Douglas Channel	Hartley Bay	July 4-Oct 31,1909 (09-0001)
9140	Douglas Channel	Kitimat	July 1-Nov 1,1909 (09-0001); Aug 6,1951-Aug 5,1954 (51-0015); Apr 25,1977-Oct 31,1978 (77-0067)
9150	Gardner Canal	Kemano Bay	Aug 8,1951-Oct 29,1952 (51-0013)
9195	Hecate Strait	Lowe Inlet	Aug 9-Dec 31,1905 (05-0002)
9232	Hecate Strait	Larsen Island	Apr 24-Sept 17,1962 (62-0027)
9242	Hecate Strait	Kitkatla Islands	July 19-Aug 15,1950 (50-0010); Apr 28-July 3,1953 (53-0016)
9250	Chatham Sound	Seabreeze Point	Aug 17-Sept 19,1973 (73-0042)
9255	Skeena River	Godfrey Point	Oct 2-25,1909 (09-0001)
9260	Skeena River	Claxton Creek	July 15,1907-Mar 6,1908 (07-0002); June 1,1909-Sept 30,1910 (09-0001); May 20-Oct 31,1914 (14-0003); Aug 17-Sept 19,1973 and June 5-25,1974 (73-0041)
9265	Skeena River	Port Essington	June 8,1909-Aug 26,1911 (09-0001)
9266	Skeena River	Haysport	June 6-25,1974 (74-0049)
9270	Skeena River	Ecstall River	June 21-Sept 30,1912 (12-0001)
9275	Skeena River	Khyex Point	July 24-Aug 27 and Sept 23-Oct 6,1949 (49-0007)
9285	Skeena River	Kwinitsa Creek	July 23-Aug 27 and Sept 23-Oct 5, 1949 (49-0007)
9306	Chatham Sound	Refuge Bay	Sept 11-26,1964 (64-0020); May 22-Sept 24,1965 (65-0019)
9309	Chatham Sound	Humpback Bay	June 21-Dec 31,1930 (30-0002)
9310	Chatham Sound	Hunt Inlet	Aug 11-Sept 14,1966 (66-0021)
9315	Chatham Sound	Qlawdzeet Anchorage	May 12-Sept 14,1966 (66-0021)
9325	Chatham Sound	Moffatt Islands	June 12-Aug 29,1967 (67-0024)
9333	Chatham Sound	Brundige Inlet	June 6-July 18,1964 (64-0020); June 29-Aug 28,1971 (71-0038)
9342	Chatham Sound	Prince Rupert	July 3-Aug 7,1967 (67-0024)
9343	Chatham Sound	Prince Rupert	July 15-Aug 7,1967 (67-0024)
9344	Chatham Sound	Prince Rupert	June 18-19,1943 (43-0002); July 6-Aug 7,1967 (67-0024)
9354	Chatham Sound	Prince Rupert	May 1,1906-present (06-0002)
9360	Chatham Sound	Prince Rupert	July 5-Aug 8,1967 (67-0024)
9390	Chatham Sound	Port Simpson	Jan 1,1903-Dec 31,1926 (03-0001)
9391	Chatham Sound	Birnie Island	July 2-20,1967 (67-0024); Aug 15-Sept 29,1969 (69-0033); Aug-Sept 1970 (70-0032)
9406	Portland Inlet	Trail Bay	June 22-Aug 28,1962 (62-0027)
9414	Portland Inlet	Kumeon Bay	July 28-Aug 27,1954 (54-0017); Sept 6-25,1961 (61-0023)
9418	Portland Inlet	Ranger Islet	July 12-Aug 22,1965 and Aug 11-Sept 23,1966 (65-0018)
9422	Nass River	Kincolith	July 17-29 and Sept 4-17,1962 (62-0027) July 27-Aug 25,1963 (63-0017)
9425	Nass River	Mill Bay	July 5-Sept 30,1913 (13-0002); July 25-Aug 6,1963 (63-0017) Sept 6-15,1964 (64-0020)
9435	Observatory Inlet	Salmon Cove	Aug 13-Sept 3,1963 (63-0017)
9443	Observatory Inlet	Granby Bay	May 17-June 13,1912 (12-0001); May 1-Oct 27,1916 (16-0003); July 11-Sept 21,1965 (65-0018)
9448	Alice Arm	Alice Arm	July 10-Sept 15,1965 (65-0018)
9450	Observatory Inlet	Hastings Arm	Sept 4-12,1963 (63-0017); Aug 16-Sept 4,1964 (64-0020)

TABLE 3: CHS WATER LEVEL STATIONS IN THE AREA OF THIS DATA COMPILATION, AND THE CORRESPONDING PERIOD(S) OF MEASUREMENTS AND DATA SET ID NUMBERS. (Cont'd)

Stn. No.	General Area	Water-Level Gauge Site	Measurement Periods (ID Number)
9475	Observatory Inlet	Stewart	June 29-Oct 31,1912 (12-0001)
9502	Cape St. James	Cape St. James	June 7-Nov 18,1960(60-0017)
9710	Cape St. James	Heater Harbour	Apr 22-Dec 3,1979 (79-0065); Sept 13,1981-May 20,1982 (81-0056A); May 21,1982-May 3,1983 (82-0051); May 3,1983-June 24,1984 (83-0035)
9713	Cape St. James	Rose Harbour	May 5-Sept 2,1935 (35-0003)
9717	Queen Charlotte Sound	Carpenter Bay	July 1-29,1960 (60-0017)
9724	Hecate Strait	Copper Islands	June 29-Sept 13,1957 (57-0017); May 3-Oct 15,1958 (58-0012); Apr 21-Aug 28,1959 (59-0017)
9733	Hecate Strait	Section Cove	May 31-June 14,1958 (58-0012); Apr 29-May 10,1959 (59-0017)
9753	Hecate Strait	Sedgwick Bay	May 9-Sept 21,1956 (56-0016)
9765	Hecate Strait	Acli Inlet	June 20-July 24, Aug 5-13, Aug 17-Sept 7, Sept 9-19, Sept 23-24,1955 (55-0022)
9770	Hecate Strait	Thurston Harbour	May 23-June 12,1954 (54-0016)
9775	Hecate Strait	Pacofi Bay	Feb 9-Oct 27,1910, June 10-Oct 17,1911, June 29-Oct 30,1912, June 6-Aug 7,1913, Aug 19-Sept 26,1913, Oct 1-28,1913 (10-0003)
9808	Hecate Strait	Shingle Bay	May 26-July 31,1915 (15-0003); June 2,1924-Jan 10,1925 (24-0002); May 11-June 15,1955 (55-0022)
9823	Skidegate Channel	Skidegate Channel	July 24-31,1979 (79-0060)
9827	Skidegate Channel	East Narrows	June 8-July 7,1957 (57-0018); June 7-July 8,1963 (63-0017)
9840	Skidegate Channel	Young Point	Apr 27-June 14,1982 (82-0046)
9850	Skidegate Channel	Skidegate Channel	Aug 7-Oct 17,1911 (11-0001); Sept 27-Oct 25,1913 (13-0002); May 27-Aug 26 and Oct 13-28,1915 (15-0003); Oct 17-Dec 17,1923 (23-0002); May 29,1957-Jan 2,1958 (57-0018); June 1-Aug 16,1963 (63-0017); June 1,1964-present (64-0022)
9910	Masset Inlet	Masset	May 16-Sept 28,1907 (07-0002); May 15-Sept 27,1910 (10-0002); June 8-July 7,1963 (63-0017); July 7-Aug 24,1972 (72-0044); Apr 28-June 25,1980 (80-0053)
9920	Masset Inlet	Port Clements	June 5-July 4,1963 (63-0017); July 19-Aug 2,1978 (78-0057); Aug 1-Sept 22,1979 (79-0060); Apr 29-June 10,1980 (80-0053)
9923	Masset Inlet	Richards Island	June 7-Oct 27,1910 (10-0002)
9927	Masset Inlet	Juskatla	Apr 23-June 6,1953 (53-0017)
9930	Masset Inlet	Dinan Bay	Aug 3-25,1978 (78-0057)
9940	Dixon Entrance	Wiah Point	June 1-July 31,1957 (57-0018); May 22-July 19,1964 (64-0020); July 10-Aug 23,1972 (72-0044); June 15-Sept 5,1980 (80-0053)
9950	Dixon Entrance	Naden Harbour	Aug 6-Sept 8,1980 (80-0053)
9958	Dixon Entrance	Parry Passage	June 9-28,1983 (83-0021)
9963	Dixon Entrance	McPherson Point	July 20-Aug 16,1963 and June 1-14,1964 (63-0017)
9964	Dixon Entrance	Langara Point	Feb 1-Dec 31,1973 (73-0040); Mar 1,1975-Dec 31,1979 (75-0070)

WATER LEVEL DATA SET NUMBER: 03-0001
YEAR:1903 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF DT		DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
CHATHAM SOUND	9390	54	34.00	130	26.00	03	01	01	26	12	31						

WATER LEVEL DATA SET NUMBER: 05-0002
YEAR:1905 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF DT		DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
Q.C.SOUND	8976	52	10.00	128	08.00	05	07	30	06	04	30						
Q.C.SOUND	8976	52	10.00	128	08.00	06	06	01	06	08	31						
HECATE STRAIT	9195	53	33.00	129	35.00	05	08	09	05	12	31						

WATER LEVEL DATA SET NUMBER: 05-0003
YEAR:1905 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF DT		DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
RIVERS INLET	8840	51	31.00	127	31.00	05	07	14	11	10	02						

WATER LEVEL DATA SET NUMBER: 06-0002
YEAR:1906 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF DT		DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
PRINCE RUPERT	9354	54	19.00	130	20.00	06	05	01	84	01	01						

WATER LEVEL DATA SET NUMBER: 07-0002
YEAR:1907 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF DT		DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
Q.C.SOUND	8976	52	10.00	128	08.00	07	01	01	07	12	31						
MASSET INLET	9910	54	00.00	132	09.00	07	05	16	07	09	28						
SKEENA RIVER	9260	54	05.00	130	05.00	07	07	15	08	03	06						

WATER LEVEL DATA SET NUMBER: 09-0001
YEAR:1909 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P T C
FITZ HUGH SD.	8870	51	52.00	127	52.00	09	08	06	09	10	28						
N.BENTINCK ARM	8937	52	23.00	126	48.00	09	07	22	09	10	24						
DOUGLAS CH.	9130	53	26.00	129	15.00	09	07	04	09	10	31						
KITIMAT	9140	53	59.00	128	43.00	09	07	01	09	11	01						
SKEENA RIVER	9255	54	01.00	130	14.00	09	10	02	09	10	25	24					
SKEENA RIVER	9260	54	05.00	130	05.00	09	06	01	09	12	31						
SKEENA RIVER	9260	54	05.00	130	05.00	10	01	01	10	09	30						
SKEENA RIVER	9265	54	10.00	129	58.00	09	06	08	11	08	26						

WATER LEVEL DATA SET NUMBER: 10-0002
YEAR:1910 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P T C
MASSET INLET	9910	54	00.00	132	09.00	10	05	15	10	09	27						
MASSET INLET	9923	53	41.00	132	21.00	10	06	07	10	10	27						

WATER LEVEL DATA SET NUMBER: 10-0003
YEAR:1910 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P T C
HECATE STRAIT	9775	52	50.00	131	53.00	10	02	09	10	10	27						
HECATE STRAIT	9775	52	50.00	131	53.00	11	06	10	11	10	17						
HECATE STRAIT	9775	52	50.00	131	53.00	12	06	29	12	10	30						
HECATE STRAIT	9775	52	50.00	131	53.00	13	06	06	13	08	07						
HECATE STRAIT	9775	52	50.00	131	53.00	13	08	19	13	09	26						
HECATE STRAIT	9775	52	50.00	131	53.00	13	10	01	13	10	28						

WATER LEVEL DATA SET NUMBER: 11-0001
YEAR:1911 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P T C
SKIDEGATE CH.	9850	53	15.00	132	04.00	11	08	07	11	10	17*					RICH	

* No data Sept. 16-19

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WATER LEVEL DATA SET NUMBER:  11-0002
YEAR:1911       VESSEL/AGENCY: CHS

    AREA          STN   LAT       LON       START     STOP     EFF DT    DEPTHS    INST ADDIT
                      DEG MIN  DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                   P T C

DEAN CHANNEL    8962 52 21.00 127 41.00 11 10 29 11 11 17
DEAN CHANNEL    8962 52 21.00 127 41.00 12 04 22 12 05 11

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WATER LEVEL DATA SET NUMBER:  12-0001
YEAR:1912       VESSEL/AGENCY: CHS

    AREA          STN   LAT       LON       START     STOP     EFF DT    DEPTHS    INST ADDIT
                      DEG MIN  DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                   P T C

SKEENA RIVER    9270 54 00.00 129 46.00 12 06 21 12 09 30
OBSERVATORY IN  9443 55 25.00 129 50.00 12 05 17 12 06 13
PORTLAND CANAL  9475 55 55.00 130 00.00 12 06 29 12 10 31

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WATER LEVEL DATA SET NUMBER:  13-0002
YEAR:1913       VESSEL/AGENCY: CHS

    AREA          STN   LAT       LON       START     STOP     EFF DT    DEPTHS    INST ADDIT
                      DEG MIN  DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                   P T C

NASS RIVER      9425 55 00.00 129 54.00 13 07 05 13 09 30
SKIDEGATE CH.   9850 53 15.00 132 04.00 13 09 27 13 10 25

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WATER LEVEL DATA SET NUMBER:  14-0003
YEAR:1914       VESSEL/AGENCY: CHS

    AREA          STN   LAT       LON       START     STOP     EFF DT    DEPTHS    INST ADDIT
                      DEG MIN  DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                   P T C

HECATE STRAIT   9090 53 02.00 128 54.00 14 07 16 14 09 19
SKEENA RIVER    9260 54 05.00 130 05.00 14 05 20 14 10 31

-----------------------------------------------------------------------------------------

WATER LEVEL DATA SET NUMBER:  15-0003
YEAR:1915       VESSEL/AGENCY: CHS

    AREA          STN   LAT       LON       START     STOP     EFF DT    DEPTHS    INST ADDIT
                      DEG MIN  DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                   P T C

FITZ HUGH SD.   8840 51 31.00 127 31.00 15 05 24 15 10 30
HECATE STRAIT   9808 53 15.00 131 49.00 15 05 26 15 07 31
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SKIDEGATE CH.   9850 53 15.00 132 04.00 15 05 27 15 08 26
SKIDEGATE CH.   9850 53 15.00 132 04.00 15 10 13 15 10 28


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WATER LEVEL DATA SET NUMBER:  16-0003
YEAR:1916       VESSEL/AGENCY: CHS

     AREA         STN    LAT      LON       START      STOP     EFF DT    DEPTHS    INST ADDIT
                       DEG MIN  DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                      P T C

OBSERVATORY IN  9443 55 25.00 129 50.00 16 05 01 16 10 27


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WATER LEVEL DATA SET NUMBER:  22-0001
YEAR:1922       VESSEL/AGENCY: CHS

     AREA         STN    LAT      LON       START      STOP     EFF DT    DEPTHS    INST ADDIT
                       DEG MIN  DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                      P T C

DEAN CHANNEL    8962 52 21.00 127 41.00 22 05 12 22 11 04
DEAN CHANNEL    8962 52 21.00 127 41.00 23 07 16 23 10 05
HECATE STRAIT   9080 52 44.00 129 17.00 22 08 07 22 09 16
HECATE STRAIT   9080 52 44.00 129 17.00 23 07 17 23 10 05


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WATER LEVEL DATA SET NUMBER:  23-0002
YEAR:1923       VESSEL/AGENCY: CHS

     AREA         STN    LAT      LON       START      STOP     EFF DT    DEPTHS    INST ADDIT
                       DEG MIN  DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                      P T C

SKIDEGATE CH.   9850 53 15.00 132 04.00 23 10 17 23 12 17


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WATER LEVEL DATA SET NUMBER:  24-0002
YEAR:1924       VESSEL/AGENCY: CHS

     AREA         STN    LAT      LON       START      STOP     EFF DT    DEPTHS    INST ADDIT
                       DEG MIN  DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                      P T C

Q.C.SOUND       9060 52 36.00 128 37.00 24 05 31 24 09 05
SKIDEGATE CH.   9808 53 15.00 131 49.00 24 06 02 25 01 10
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WATER LEVEL DATA SET NUMBER:  28-0003
YEAR:1928      VESSEL/AGENCY: CHS

    AREA        STN    LAT       LON       START      STOP     EFF DT     DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                    P T C

Q.C.SOUND      8909 52 00.00 128 25.00 28 06 28 28 08 20
Q.C.SOUND      9005 52 19.00 128 21.00 28 06 27 28 09 18

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WATER LEVEL DATA SET NUMBER:  30-0002
YEAR:1930      VESSEL/AGENCY: CHS

    AREA        STN    LAT       LON       START      STOP     EFF DT     DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                    P T C

CHATHAM SOUND  9309 54 05.00 130 24.00 30 06 21 30 12 31

--------------------------------------------------------------------------------

WATER LEVEL DATA SET NUMBER:  31-0003
YEAR:1931      VESSEL/AGENCY: CHS

    AREA        STN    LAT       LON       START      STOP     EFF DT     DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                    P T C

Q.C.SOUND      8416 50 51.00 127 51.00 31 07 05 32 01 31

--------------------------------------------------------------------------------

WATER LEVEL DATA SET NUMBER:  35-0003
YEAR:1935      VESSEL/AGENCY: CHS

    AREA        STN    LAT       LON       START      STOP     EFF DT     DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                    P T C

CAPE ST. JAMES 9713 52 09.00 131 05.00 35 05 05 35 09 02

--------------------------------------------------------------------------------

WATER LEVEL DATA SET NUMBER:  42-0003
YEAR:1942      VESSEL/AGENCY: CHS

    AREA        STN    LAT       LON       START      STOP     EFF DT     DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                    P T C

FITZ HUGH SD.  8860 51 36.00 127 49.00 42 09 09 42 09 12
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WATER LEVEL DATA SET NUMBER:  43-0002
YEAR:1943      VESSEL/AGENCY: CHS

    AREA        STN    LAT       LON        START       STOP      EFF DT     DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN    YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                      P T C

MORSE BASIN     9344 54 15.00 130 14.00 43 06 18 43 06 19

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WATER LEVEL DATA SET NUMBER:  47-0003
YEAR:1947      VESSEL/AGENCY: CHS

    AREA        STN    LAT       LON        START       STOP      EFF DT     DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN    YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                      P T C

Q.C.SOUND       8810 51 16.00 127 41.00 47 05 22 47 08 22

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WATER LEVEL DATA SET NUMBER:  49-0007
YEAR:1949      VESSEL/AGENCY: CHS

    AREA        STN    LAT       LON        START       STOP      EFF DT     DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN    YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                      P T C

SKEENA RIVER    9275 54 14.00 129 48.00 49 07 24 49 08 27
SKEENA RIVER    9275 54 14.00 129 48.00 49 09 23 49 10 06
SKEENA RIVER    9285 54 13.00 129 35.00 49 07 23 49 08 27
SKEENA RIVER    9285 54 13.00 129 35.00 49 09 23 49 10 05

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WATER LEVEL DATA SET NUMBER:  50-0010
YEAR:1950      VESSEL/AGENCY: CHS

    AREA        STN    LAT       LON        START       STOP      EFF DT     DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN    YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                      P T C

HECATE STRAIT   9242 53 48.00 130 21.00 50 07 19 50 08 15   28

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WATER LEVEL DATA SET NUMBER:  51-0013
YEAR:1951      VESSEL/AGENCY: CHS

    AREA        STN    LAT       LON        START       STOP      EFF DT     DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN    YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                      P T C

GARDNER CANAL   9150 53 31.00 128 07.00 51 08 08 52 10 29                        LEGE
```

WATER LEVEL DATA SET NUMBER: 51-0015
YEAR:1951 VESSEL/AGENCY: CHS

AREA	STN	LAT	LON	START	STOP	EFF	DT	DEPTHS		INST	ADDIT
		DEG MIN	DEG MIN	YR MO DY	YR MO DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
KITIMAT	9140	53 59.00	128 43.00	51 08 06	54 08 05					LEGE	

WATER LEVEL DATA SET NUMBER: 53-0016
YEAR:1953 VESSEL/AGENCY: CHS

AREA	STN	LAT	LON	START	STOP	EFF	DT	DEPTHS		INST	ADDIT
		DEG MIN	DEG MIN	YR MO DY	YR MO DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
PR.ROYAL CH.	9053	53 10.00	128 42.00	53 07 04	53 09 12					LEGE	
PR.ROYAL CH.	9053	53 10.00	128 42.00	54 06 23	54 08 06						
HECATE STRAIT	9115	53 05.00	129 07.00	53 07 09	53 09 09						
HECATE STRAIT	9242	53 48.00	130 21.00	53 04 28	53 07 03						

WATER LEVEL DATA SET NUMBER: 53-0017
YEAR:1953 VESSEL/AGENCY: CHS

AREA	STN	LAT	LON	START	STOP	EFF	DT	DEPTHS		INST	ADDIT
		DEG MIN	DEG MIN	YR MO DY	YR MO DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
MASSET INLET	9927	53 37.00	132 18.00	53 04 23	53 06 06						

WATER LEVEL DATA SET NUMBER: 54-0016
YEAR:1954 VESSEL/AGENCY: CHS

AREA	STN	LAT	LON	START	STOP	EFF	DT	DEPTHS		INST	ADDIT
		DEG MIN	DEG MIN	YR MO DY	YR MO DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
HECATE STRAIT	9770	52 50.00	131 44.00	54 05 23	54 06 12	20				LEGE	

WATER LEVEL DATA SET NUMBER: 54-0017
YEAR:1954 VESSEL/AGENCY: CHS

AREA	STN	LAT	LON	START	STOP	EFF	DT	DEPTHS		INST	ADDIT
		DEG MIN	DEG MIN	YR MO DY	YR MO DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
PORTLAND INLET	9414	54 43.00	130 14.00	54 07 28	54 08 27	30				FOXB	

WATER LEVEL DATA SET NUMBER: 55-0022
YEAR:1955 VESSEL/AGENCY: CHS

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	 WATER	INST TYPE	ADDIT SENSOR P T C
HECATE STRAIT	9765	52 43.00	131 35.00	55 06 20	55 07 24						
HECATE STRAIT	9765	52 43.00	131 35.00	55 08 05	55 08 13						
HECATE STRAIT	9765	52 43.00	131 35.00	55 08 17	55 09 07						
HECATE STRAIT	9765	52 43.00	131 35.00	55 09 09	55 09 19						
HECATE STRAIT	9765	52 43.00	131 35.00	55 09 23	55 09 24						
SKIDEGATE CH.	9808	53 15.00	131 49.00	55 05 11	55 06 15	24					

WATER LEVEL DATA SET NUMBER: 56-0015
YEAR:1956 VESSEL/AGENCY: CHS

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	 WATER	INST TYPE	ADDIT SENSOR P T C
DEAN CHANNEL	8970	52 49.00	127 00.00	56 08 31	56 09 21						

WATER LEVEL DATA SET NUMBER: 56-0016
YEAR:1956 VESSEL/AGENCY: CHS

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	 WATER	INST TYPE	ADDIT SENSOR P T C
HECATE STRAIT	9753	52 38.00	131 34.00	56 05 09	56 09 21						

WATER LEVEL DATA SET NUMBER: 56-0017
YEAR:1956 VESSEL/AGENCY: CHS

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	 WATER	INST TYPE	ADDIT SENSOR P T C
N.BENTINCK ARM	8937	52 23.00	126 48.00	56 04 24	57 05 20						
DEAN CHANNEL	8984	52 23.00	127 51.00	56 05 09	56 06 03	17					

WATER LEVEL DATA SET NUMBER: 57-0017
YEAR:1957 VESSEL/AGENCY: CHS

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	 WATER	INST TYPE	ADDIT SENSOR P T C
HECATE STRAIT	9724	52 21.00	131 10.00	57 06 29	57 09 13	77				LEGE	

WATER LEVEL DATA SET NUMBER: 57-0018
YEAR:1957 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
SKIDEGATE CH.	9827	53	09.00	132	15.00	57	06	08	57	07	07					LEGE	
SKIDEGATE CH.	9850	53	15.00	132	04.00	57	05	29	58	01	02					LEGE	
DIXON ENTRANCE	9940	54	07.00	132	19.00	57	06	01	57	07	31						

WATER LEVEL DATA SET NUMBER: 58-0012
YEAR:1958 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
HECATE STRAIT	9733	52	26.00	131	23.00	58	05	31	58	06	14	15					
HECATE STRAIT	9724	52	21.00	131	10.00	58	05	03	58	10	15					FOXB	

WATER LEVEL DATA SET NUMBER: 59-0017
YEAR:1959 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
FITZ HUGH SD.	8830	51	29.00	127	33.00	59	08	03	59	09	30						
FITZ HUGH SD.	8860	51	36.00	127	49.00	59	07	31	59	09	03						
Q.C. SOUND	8906	51	54.00	128	26.00	59	07	04	59	09	08					FOXB	
HECATE STRAIT	9724	52	21.00	131	10.00	59	04	21	59	08	28					LEGE	
HECATE STRAIT	9733	52	26.00	131	23.00	59	04	29	59	05	10					LEGE	

WATER LEVEL DATA SET NUMBER: 60-0017
YEAR:1960 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
SEYMOUR INLET	8458	51	03.00	126	44.00	60	05	12	60	06	09					LEGE	
SEYMOUR INLET	8464	51	05.00	127	15.00	60	05	11	60	06	09					LEGE	
SEYMOUR INLET	8470	51	07.00	127	32.00	60	05	09	60	06	11					LEGE	
BELIZE INLET	8476	51	10.00	127	25.00	60	05	09	60	06	07					LEGE	
BELIZE INLET	8482	51	07.00	127	16.00	60	05	17	60	06	16					LEGE	
BELIZE INLET	8488	51	09.00	127	00.00	60	05	10	60	06	07					LEGE	
Q.C.SOUND	9010	52	24.00	128	16.00	60	08	01	60	09	17	16				FOXB	
Q.C.SOUND	9020	52	45.00	128	22.00	60	05	19	60	06	14					LEGE	
Q.C.SOUND	9026	52	50.5	128	08.5	60	09	19	60	10	05	17				FOXB	
Q.C.SOUND	9035	52	36.00	128	31.00	60	05	17	60	06	15					FOXB	
HECATE STRAIT	9077	52	39.00	129	28.80	60	04	27	60	08	19					FOXB	
HECATE STRAIT	9077	52	39.00	129	28.80	61	07	04	61	10	05					FOXB	
CAPE ST JAMES	9502	51	56.00	131	01.00	60	06	07	60	11	18						
Q.C. SOUND	9717	52	14.00	131	09.00	60	07	01	60	07	29					FOXB	

WATER LEVEL DATA SET NUMBER: 61-0023
YEAR:1961 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
Q.C.SOUND	8976	52	10.00	128	08.00	61	07	15	84	01	01								
Q.C.SOUND	9028	52	54.00	128	15.00	61	08	20	61	08	31	11				FOXB			
Q.C.SOUND	9063	52	37.00	128	46.00	61	07	18	61	08	15					LEGE			
PORTLAND INLET	9414	54	43.00	130	14.00	61	09	06	61	09	25					LEGE			

WATER LEVEL DATA SET NUMBER: 62-0027
YEAR:1962 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
Q.C.SOUND	8805	51	15.00	127	50.00	62	06	22	62	10	03					FOXB			
Q.C.SOUND	8805	51	15.00	127	50.00	63	07	30	63	10	09					FOXB			
Q.C.SOUND	8810	51	16.00	127	41.00	62	08	01	62	09	30								
HECATE STRAIT	9232	53	37.00	130	34.00	62	04	24	62	09	17					FOXB			
NASS RIVER	9422	55	00.00	129	59.00	62	07	17	62	07	29					LEGE			
NASS RIVER	9422	55	00.00	129	59.00	62	09	04	62	09	17					LEGE			
PORTLAND INLET	9406	54	35.00	130	21.00	62	06	22	62	08	28					LEGE			

WATER LEVEL DATA SET NUMBER: 63-0017
YEAR:1963 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
NASS RIVER	9422	55	00.00	129	59.00	63	07	27	63	08	25					LEGE			
NASS RIVER	9425	55	00.00	129	54.00	63	07	25	63	08	06					FOXB			
OBSERVATORY IN	9435	55	16.00	129	51.00	63	08	13	63	09	03					FOXB			
OBSERVATORY IN	9450	55	33.00	129	46.00	63	09	04	63	09	12	8				FOXB			
SKIDEGATE CH.	9827	53	09.00	132	15.00	63	06	07	63	07	08								
SKIDEGATE CH.	9850	53	15.00	132	04.00	63	06	01	63	08	16					LEGE			
MASSET INLET	9910	54	01.00	132	09.00	63	06	08	63	07	07								
MASSET INLET	9920	53	41.00	132	10.00	63	06	05	63	07	04								
DIXON ENTRANCE	9963	54	14.00	132	58.60	63	07	20	63	08	16								
DIXON ENTRANCE	9963	54	14.00	132	58.60	64	06	01	64	06	14					FOXB			

WATER LEVEL DATA SET NUMBER: 64-0018
YEAR:1964 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
BURKE CHANNEL	8873	51	54.00	127	51.00	64	05	19	64	05	31					FOXB			
BURKE CHANNEL	8928	52	19.00	127	10.00	64	04	30	64	05	16					FOXB			
BURKE CHANNEL	8935	52	22.00	126	52.00	64	04	10	64	04	27					FOXB			

WATER LEVEL DATA SET NUMBER: 64-0020
YEAR:1964 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
CHATHAM SOUND	9306	54	03.00	130	32.00	64	09	11	64	09	26								
CHATHAM SOUND	9333	54	37.00	130	51.00	64	06	06	64	07	18					FOXB	X		
NASS RIVER	9425	55	00.00	129	54.00	64	09	06	64	09	15					FOXB	X		
OBSERVATORY IN	9450	55	33.00	129	46.00	64	08	16	64	09	04					FOXB	X		
CHATHAM SOUND	9940	54	07.00	132	19.00	64	05	22	64	07	19					OTTB	X		

WATER LEVEL DATA SET NUMBER: 64-0022
YEAR:1964 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
SKIDEGATE CH.	9850	53	15.00	132	04.00	64	06	01	84	11	01								

WATER LEVEL DATA SET NUMBER: 64-0023
YEAR:1964 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
N.BENTINCK ARM	8937	52	23.00	126	48.00	64	05	01	67	06	30								

WATER LEVEL DATA SET NUMBER: 65-0018
YEAR:1965 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
PORTLAND INLET	9418	54	50.50	130	10.50	65	07	12	65	08	22								
PORTLAND INLET	9418	54	50.50	130	10.50	66	08	11	66	09	23								
OBSERVATORY IN	9443	55	25.00	129	49.50	65	07	11	65	09	21					OTTB	X		
ALICE ARM	9448	55	28.00	129	30.00	65	07	10	65	09	15						X		

WATER LEVEL DATA SET NUMBER: 65-0019
YEAR:1965 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
CHATHAM SOUND	9306	54	03.00	130	32.00	65	05	22	65	09	24					OTTB	X		

WATER LEVEL DATA SET NUMBER: 66-0021
YEAR:1966 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
CHATHAM SOUND	9310	54	04.50	130	26.70	66	08	11	66	09	14					OTTB	X		
CHATHAM SOUND	9315	54	13.00	130	46.00	66	05	12	66	09	14					OTTB	X		

WATER LEVEL DATA SET NUMBER: 67-0024
YEAR:1967 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
Q.C. SOUND	9060	52	36.00	128	37.00	67	05	22	67	07	25					FOXB	X		
CHATHAM SOUND	9325	54	26.60	130	43.50	67	06	12	67	08	29						X		
PRINCE RUPERT	9342	54	13.70	130	17.60	67	07	03	67	08	07								
PRINCE RUPERT	9343	54	15.00	130	16.00	67	07	15	67	08	07								
PRINCE RUPERT	9344	54	15.00	130	14.00	67	07	06	67	08	07								
PRINCE RUPERT	9360	54	20.00	130	17.00	67	07	05	67	08	08								
CHATHAM SOUND	9391	54	35.40	130	27.50	67	07	02	67	07	20					OTTB	X		

WATER LEVEL DATA SET NUMBER: 68-0027
YEAR:1968 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
Q.C.SOUND	8981	52	14.50	128	02.20	68	05	30	68	06	19					FOXB			
Q.C.SOUND	8981	52	14.50	128	02.20	68	07	08	68	08	26					FOXB			

WATER LEVEL DATA SET NUMBER: 69-0032
YEAR:1969 VESSEL/AGENCY: CHS

AREA	STN	LAT	LON	START	STOP	EFF DT	DEPTHS	INST	ADDIT		
		DEG MIN	DEG MIN	YR MO DY	YR MO DY	LEN MN	INSTR WATER	TYPE	SENSOR		
									P	T	C
Q.C.SOUND	9060	52 36.00	128 37.00	69 07 01	69 07 16			FOXB	X		

WATER LEVEL DATA SET NUMBER: 69-0033
YEAR:1969 VESSEL/AGENCY: CHS

AREA	STN	LAT	LON	START	STOP	EFF DT	DEPTHS	INST	ADDIT		
		DEG MIN	DEG MIN	YR MO DY	YR MO DY	LEN MN	INSTR WATER	TYPE	SENSOR		
									P	T	C
CHATHAM SOUND	9391	54 35.50	130 27.50	69 08 15	69 09 29			FOXB	X		

WATER LEVEL DATA SET NUMBER: 70-0032
YEAR:1970 VESSEL/AGENCY: CHS

AREA	STN	LAT	LON	START	STOP	EFF DT	DEPTHS	INST	ADDIT		
		DEG MIN	DEG MIN	YR MO DY	YR MO DY	LEN MN	INSTR WATER	TYPE	SENSOR		
									P	T	C
CHATHAM SOUND	9327	54 27.00	130 51.00	70 06 01	70 07 31						
CHATHAM SOUND	9391	54 35.40	130 27.50	70 08	70 09			FOXB	X		

WATER LEVEL DATA SET NUMBER: 71-0038
YEAR:1971 VESSEL/AGENCY: CHS

AREA	STN	LAT	LON	START	STOP	EFF DT	DEPTHS	INST	ADDIT		
		DEG MIN	DEG MIN	YR MO DY	YR MO DY	LEN MN	INSTR WATER	TYPE	SENSOR		
									P	T	C
DIXON ENTRANCE	9333	54 37.00	130 51.00	71 06 29	71 08 28			FOXB			

WATER LEVEL DATA SET NUMBER: 72-0044
YEAR:1972 VESSEL/AGENCY: CHS

AREA	STN	LAT	LON	START	STOP	EFF DT	DEPTHS	INST	ADDIT		
		DEG MIN	DEG MIN	YR MO DY	YR MO DY	LEN MN	INSTR WATER	TYPE	SENSOR		
									P	T	C
CHATHAM SOUND	9312	54 06.00	130 20.00	72 08 25	72 09 27			FOXB	X		
MASSET INLET	9910	54 00.30	132 09.00	72 07 07	72 08 24			FOXB	X		
DIXON ENTRANCE	9940	54 07.00	132 19.00	72 07 10	72 08 23				X		

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WATER LEVEL DATA SET NUMBER:  73-0040
YEAR:1973      VESSEL/AGENCY:  CHS

    AREA          STN     LAT        LON        START       STOP      EFF DT     DEPTHS     INST ADDIT
                        DEG MIN    DEG MIN    YR MO DY YR MO DY   LEN MN INSTR WATER  TYPE SENSOR
                                                                                              P T C

DIXON ENTRANCE  9964 54 15.00 133 02.00 73 02 01 73 12 31

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WATER LEVEL DATA SET NUMBER:  73-0041
YEAR:1973      VESSEL/AGENCY:  CHS

    AREA          STN     LAT        LON        START       STOP      EFF DT     DEPTHS     INST ADDIT
                        DEG MIN    DEG MIN    YR MO DY YR MO DY   LEN MN INSTR WATER  TYPE SENSOR
                                                                                              P T C

SKEENA RIVER    9260 54 05.00 130 05.00 73 08 17 73 09 19   33 60                OTTB X
SKEENA RIVER    9260 54 05.00 130 05.00 74 06 05 74 06 25   20 60                FOXB X

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WATER LEVEL DATA SET NUMBER:  73-0042
YEAR:1973      VESSEL/AGENCY:  CHS

    AREA          STN     LAT        LON        START       STOP      EFF DT     DEPTHS     INST ADDIT
                        DEG MIN    DEG MIN    YR MO DY YR MO DY   LEN MN INSTR WATER  TYPE SENSOR
                                                                                              P T C

CHATHAM SOUND   9250 53 59.00 130 11.00 73 08 17 73 09 19   33 60                FOXB X

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WATER LEVEL DATA SET NUMBER:  74-0049
YEAR:1974      VESSEL/AGENCY:  CHS

    AREA          STN     LAT        LON        START       STOP      EFF DT     DEPTHS     INST ADDIT
                        DEG MIN    DEG MIN    YR MO DY YR MO DY   LEN MN INSTR WATER  TYPE SENSOR
                                                                                              P T C

SKEENA RIVER    9266 54 10.60 130 00.50 74 06 06 74 06 25   19 60                FOXB X

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WATER LEVEL DATA SET NUMBER:  75-0070
YEAR:1975      VESSEL/AGENCY:  CHS

    AREA          STN     LAT        LON        START       STOP      EFF DT     DEPTHS     INST ADDIT
                        DEG MIN    DEG MIN    YR MO DY YR MO DY   LEN MN INSTR WATER  TYPE SENSOR
                                                                                              P T C

DIXON ENTRANCE  9964 54 15.00 133 02.00 75 03 01 79 12 31
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WATER LEVEL DATA SET NUMBER: 77-0042
YEAR:1977 VESSEL/AGENCY: IOS,DOBROCKY

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
KILDALA ARM	1	53	52.10	128	42.10	77	09	27	77	12	09					TG3A			
KILDALA ARM	1	53	52.10	128	42.10	78	03	09	78	06	10					TG3A			
REDFERN POINT	2	53	01.40	129	11.50	77	09	26	77	12	07					TG3A			
REDFERN POINT	2	53	01.40	129	11.50	77	12	13	78	03	08					TG3A			
GREEN INLET	3	52	55.10	128	29.80	77	07	16	77	09	25					TG3A			
GREEN INLET	3	52	55.10	128	29.80	77	12	09	78	03	09					TG3A			
CAMPANIA IS.	4	53	10.40	129	32.80	77	07	08	77	09	26					TG3A			
CAMPANIA IS.	4	53	10.40	129	32.80	77	09	26	77	12	10					TG3A			
KLEWNUGGIT IN.	5	53	40.80	129	45.60	77	07	11	77	09	29					TG3A			
KLEWNUGGIT IN.	5	53	40.80	129	45.60	78	03	12	78	06	09					TG3A			
DOUGLAS CH.	6	53	23.00	129	16.80	77	10	03	77	12	06					TG3A			
DOUGLAS CH.	6	53	23.00	129	16.80	77	12	06	78	03	07					TG3A			
DOUGLAS CH.	6	53	23.00	129	16.80	78	03	07	78	06	09					TG3A			
DOUGLAS CH.	7	53	29.00	128	07.30	78	03	11	78	06	10					TG3A			
DOUGLAS CH.	8	53	35.00	128	53.50	77	12	11	78	03	11					TG3A			

WATER LEVEL DATA SET NUMBER: 77-0057A
YEAR:1977 VESSEL/AGENCY: CHS,PARIZEAU

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
Q.C.SOUND	Q05	51	22.00	130	01.00	77	05	18	77	07	19		15	275	275	750A	X		

WATER LEVEL DATA SET NUMBER: 77-0067
YEAR:1977 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
KITIMAT	9140	53	59.00	128	43.00	77	04	25	78	10	31	248	60			HWK			

No record Aug. 1-18, 1978.

WATER LEVEL DATA SET NUMBER: 77-0068
YEAR:1977 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT SENSOR		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	P	T	C
HECATE STRAIT	9105	52	58.00	129	36.00	77	06	21	77	08	30	69	60			OTTB	X		

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WATER LEVEL DATA SET NUMBER:  78-0057
YEAR:1978       VESSEL/AGENCY:  CHS

    AREA         STN    LAT       LON       START      STOP     EFF DT     DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                    P T C

MASSET INLET     9920 53 41.00 132 10.00 78 07 19 78 08 02   14 60             OTTB X
MASSET INLET     9930 53 41.50 132 36.00 78 08 03 78 08 25   22 60             OTTB X

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WATER LEVEL DATA SET NUMBER:  79-0060
YEAR:1979       VESSEL/AGENCY:  CHS

    AREA         STN    LAT       LON       START      STOP     EFF DT     DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                    P T C

Q.C.SOUND        9056 52 29.20 128 45.70 79 07 23 79 08 21   32 60             OTTB X
Q.C.SOUND        9063 52 37.00 128 46.00 79 06 22 79 08 15   53 60             OTTB X
Q.C.SOUND        9067 52 45.00 129 04.00 79 06 16 79 07 20   33 60             OTTB X
HECATE STRAIT    9823 53 08.90 132 12.80 79 07 24 79 07 31                     OTTB X
MASSET INLET     9920 53 41.00 132 10.00 79 08 01 79 09 22                     OTTB X

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WATER LEVEL DATA SET NUMBER:  79-0065
YEAR:1979       VESSEL/AGENCY:  IOS,TIDE&CURR.

    AREA         STN    LAT       LON       START      STOP     EFF DT     DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                    P T C

CAPE ST. JAMES   9710 52 07.22 131 02.00 79 04 22 79 12 03      30             750A X X

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WATER LEVEL DATA SET NUMBER:  80-0053
YEAR:1980       VESSEL/AGENCY:  CHS

    AREA         STN    LAT       LON       START      STOP     EFF DT     DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                    P T C

MASSET INLET     9910 54 00.00 132 09.00 80 04 28 80 06 25   57 60             OTTB X
MASSET INLET     9920 53 41.00 132 10.00 80 04 29 80 06 10   42 60             OTTB X
DIXON ENTRANCE   9940 54 07.00 132 19.00 80 06 15 80 09 05   81 60             OTTB X
DIXON ENTRANCE   9950 54 02.00 132 35.00 80 08 06 80 09 08   28 60             OTTB X
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WATER LEVEL DATA SET NUMBER: 81-0018
YEAR:1981 VESSEL/AGENCY: IOS,COASTAL

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
ALICE ARM	L100	55	27.32	129	30.15	81	12	05	82	09	02	270	30	10.4		750A			
ALICE ARM	L123	55	16.35	129	50.80	81	12	06	82	08	31	268	30	7.6		750A			
ALICE ARM	L126	54	50.10	130	16.80	81	12	07	82	06	11	185	30	7.6		750A			
ALICE ARM	A45	55	26.90	129	29.42	81	12	21	82	01	19	29	15	3.6		750A			
ALICE ARM	L105	54	50.10	130	16.80	81	12	06	82	09	24	291	30	7.9		750A			
ALICE ARM	A171	55	27.32	129	30.15	81	12	05	82	09	25	293	60	9.9		TG3A			

WATER LEVEL DATA SET NUMBER: 81-0021
YEAR:1981 VESSEL/AGENCY: DOME/SEAKEM,ESL

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
CHATHAM SD.		54	35.3	130	25.5	81	05	02	81	06	14	42	8	10	10	AAND	X	X	

WATER LEVEL DATA SET NUMBER: 81-0055
YEAR:1981 VESSEL/AGENCY: CHS,ENDEAVOUR

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
DIXON ENTRANCE	4	54	40.0	132	01.5	81	02	05	81	09	11		30	137	137	TG3A	X	X	
DIXON ENTRANCE	3	54	38.4	132	41.3	81	02	05	81	09	12		30	91	91	TG3A	X	X	
DIXON ENTRANCE	1	54	14.5	133	09.8	81	02	05	81	09	12		30	137	137	TG3A	X	X	
DIXON ENTRANCE	6	54	15.6	131	57.0	81	02	06	81	09	11		30	201	201	TG3A	X	X	
HECATE STRAIT	8	53	16.5	130	58.0	81	02	06	81	09	11		30	82	82	TG12	X	X	
HECATE STRAIT	7	54	07.25	131	01.4	81	02	06	81	09	11		30	101	101	TG3A	X	X	
DIXON ENTRANCE	5	54	40.1	131	15.8	81	02	05	81	09	12		30	201	201	750A	X	X	
DIXON ENTRANCE	2	54	27.3	132	53.7	81	02	05	81	09	12		30	366	366	750A	X	X	

WATER LEVEL DATA SET NUMBER: 81-0056A
YEAR:1981 VESSEL/AGENCY: CHS,ENDEAVOUR

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
CAPE ST. JAMES	9710	52	07.22	131	02.00	81	09	13	82	05	20			9	9	750A	X		

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WATER LEVEL DATA SET NUMBER:  81-0058
YEAR:1981      VESSEL/AGENCY: AMAX,DOBROCKY

    AREA         STN    LAT      LON       START    STOP    EFF DT   DEPTHS    INST ADDIT
                      DEG MIN  DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                    P T C

ALICE ARM             55 26.88 129 29.42 81 07 31 81 11 22  114 15  9.7   10.  TG3A X X

----------------------------------------------------------------------------------------

WATER LEVEL DATA SET NUMBER:  81-0060
YEAR:1981      VESSEL/AGENCY: AMAX,DOBROCKY

    AREA         STN    LAT      LON       START    STOP    EFF DT   DEPTHS    INST ADDIT
                      DEG MIN  DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                    P T C

ALICE ARM             55 26.90 129 29.45 81 11 22 81 12 21   25 15  9.7   10.  TG3A X X

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WATER LEVEL DATA SET NUMBER:  81-0061
YEAR:1981      VESSEL/AGENCY: AMAX,DOBROCKY

    AREA         STN    LAT      LON       START    STOP    EFF DT   DEPTHS    INST ADDIT
                      DEG MIN  DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                    P T C

ALICE ARM             55 26.88 129 29.42 81 05 27 81 07 29   62 15  9.7   10.  TG3A X X

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WATER LEVEL DATA SET NUMBER:  81-0065
YEAR:1981      VESSEL/AGENCY: AMAX,DOBROCKY

    AREA         STN    LAT      LON       START    STOP    EFF DT   DEPTHS    INST ADDIT
                      DEG MIN  DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                    P T C

ALICE ARM             55 26.90 129 29.45 81 12 15 82 01 20   36 15  9.7   10.  TG3A X X

----------------------------------------------------------------------------------------

WATER LEVEL DATA SET NUMBER:  82-0037
YEAR:1982      VESSEL/AGENCY: IOS,COASTAL

    AREA         STN    LAT      LON       START    STOP    EFF DT   DEPTHS    INST ADDIT
                      DEG MIN  DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER TYPE SENSOR
                                                                                    P T C

ALICE ARM        L103 54 50.10 130 16.80 82 08 31 83 04 19  231 30  8.0        750A
ALICE ARM        L104 55 16.35 129 50.80 82 08 31 83 04 19  230 30  8.2        750A
```

WATER LEVEL DATA SET NUMBER: 82-0040
YEAR:1982 VESSEL/AGENCY: IOS,COASTAL

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
ALICE ARM	A171	55	27.32	129	30.15	82	09	25	83	04	18	205	60	10.1		TG3A			
ALICE ARM	L105	55	16.35	129	50.80	82	09	24	83	04	19	206	30	8.0		750A			
ALICE ARM	L100	54	50.10	130	16.80	82	09	24	83	04	19	207	30	8.2		750A			

WATER LEVEL DATA SET NUMBER: 82-0046
YEAR:1982 VESSEL/AGENCY: CHS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
SKIDEGATE CH.	9840	53	12.50	132	17.00	82	04	27	82	06	14					FOXB	X		

WATER LEVEL DATA SET NUMBER: 82-0051
YEAR:1982 VESSEL/AGENCY: CHS,PARIZEAU

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
QUEEN CH.SOUND	G01	51	36.04	128	53.00	82	05	29	82	09	22		15	50	50	TG12	X	X	
QUEEN CH.SOUND	G05	51	21.75	128	54.88	82	05	29	82	09	21		15	240	240	TG3A	X	X	
QUEEN CH.SOUND	Q06	51	51.96	130	29.04	82	05	30	82	09	18		15	280	280	TG2A	X		
CAPE ST. JAMES	9710	52	07.22	131	02.00	82	05	21	83	05	03		30	6	6	750A	X	X	
HECATE STRAIT		52	42.82	131	34.63	82	05	21	83	09	21		30	10	10	750A	X	X	
HECATE STRAIT		54	01.41	130	36.77	82	05	23	83	09	18		30	9	9	750A	X	X	
HECATE STRAIT		52	46.88	129	17.92	82	05	23	83	09	25		30	12	12	750A	X	X	
FITZ HUGH SD.		51	41.36	128	06.38	82	05	24	83	01	21		30	12	12	750A	X	X	

WATER LEVEL DATA SET NUMBER: 82-0052
YEAR:1982 VESSEL/AGENCY: DOBROCKY/AMAX

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT		
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR		
																	P	T	C
ALICE ARM		55	26.88	129	29.42	82	01	20	82	03	06		15		10	TG3A	X		

```
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WATER LEVEL DATA SET NUMBER:  82-0053
YEAR:1982      VESSEL/AGENCY: DOBROCKY/AMAX

    AREA         STN    LAT       LON      START      STOP    EFF DT   DEPTHS    INST ADDIT
                      DEG MIN  DEG MIN   YR MO DY YR MO DY   LEN MN INSTR WATER TYPE SENSOR
                                                                                     P T C

ALICE ARM             55 26.88 129 29.42 82 03 08 82 05 19      15          10 TG3A X

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WATER LEVEL DATA SET NUMBER:  83-0021
YEAR:1983      VESSEL/AGENCY: CHS

    AREA         STN    LAT       LON      START      STOP    EFF DT   DEPTHS    INST ADDIT
                      DEG MIN  DEG MIN   YR MO DY YR MO DY   LEN MN INSTR WATER TYPE SENSOR
                                                                                     P T C

Q.C. SOUND       8958 52 10.00 127 55.00 83 08 09 83 09 19   41 60             OTTB
Q.C. SOUND       8974 52 09.00 128 05.00 83 09 04 83 09 29   25 60             OTTB
Q.C. SOUND       8978 52 12.00 128 10.00 83 07 09 83 09 04   57 60             OTTB
DIXON ENTRANCE   9958 54 11.40 133 00.10 83 06 09 83 06 28   19 60             OTTB X

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WATER LEVEL DATA SET NUMBER:  83-0034
YEAR:1983      VESSEL/AGENCY: IOS

    AREA         STN    LAT       LON      START      STOP    EFF DT   DEPTHS    INST ADDIT
                      DEG MIN  DEG MIN   YR MO DY YR MO DY   LEN MN INSTR WATER TYPE SENSOR
                                                                                     P T C

FITZ HUGH SD.         51 41.36 128 06.38 83 01 22 83 09 28      30    18    18 750A X X

------------------------------------------------------------------------------------------

WATER LEVEL DATA SET NUMBER:  83-0035
YEAR:1983      VESSEL/AGENCY: IOS

    AREA         STN    LAT       LON      START      STOP    EFF DT   DEPTHS    INST ADDIT
                      DEG MIN  DEG MIN   YR MO DY YR MO DY   LEN MN INSTR WATER TYPE SENSOR
                                                                                     P T C

CAPE ST. JAMES   9710 52 07.22 131 02.00 83 05 03 84 01 24      30     6     6 AML  X
HOUSTON_ST CH         52 04.59 131 07.42 83 05 04 83 09 09      30    13    13 TG3A X X
SKIDEGATE CH.         53 09.78 132 27.54 83 05 05 83 09 11   62 30     4     4 WLR5 X
DIXON ENTRANCE        54 13.47 132 57.85 83 05 07 83 09 16   62 30    14    14 TG12 X
                      53 10.41 131 16.48 83 05 14 83 09 20    ? 30    39    39 WLR5 X
HECATE STRAIT         54 01.40 130 36.70 83 09 18 84 04 12  207 30     9     9 750A X X
HECATE STRAIT         53 43.06 131 44.13 83 04 29 83 09 19      30    15    15 TG12 X
```

WATER LEVEL DATA SET NUMBER: 83-0036A
YEAR:1983 VESSEL/AGENCY: CHS

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	START YR	START MO	START DY	STOP YR	STOP MO	STOP DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	ADDIT SENSOR T	ADDIT SENSOR C
DIXON ENTRANCE		54	13.47	132	57.85	83	09	16	84	01	21	62	30	14	14	TG12	X	X	

WATER LEVEL DATA SET NUMBER: 83-0036B
YEAR:1983 VESSEL/AGENCY: IOS

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	START YR	START MO	START DY	STOP YR	STOP MO	STOP DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	ADDIT SENSOR T	ADDIT SENSOR C
HECATE STRAIT		52	46.88	129	17.92	83	09	26	84	04	10		30	12	12	AML	X		
HECATE STRAIT		52	42.82	131	34.63	83	09	21	84	04	11	204	30	10	10	AML	X	X	
FITZ HUGH SD.		51	41.36	128	06.38	83	09	28	84	01	25		30	18	18	AML	X	X	
HOUSTON-ST CH.		52	04.59	131	07.42	83	09	09	84	04	24		30	8	8	TG3A	X	X	

WATER LEVEL DATA SET NUMBER: 84-0001
YEAR:1984 VESSEL/AGENCY: CHS

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	START YR	START MO	START DY	STOP YR	STOP MO	STOP DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	ADDIT SENSOR T	ADDIT SENSOR C
DIXON ENTRANCE		54	13.47	132	57.85	84	01	21	84	04	21		30	13	13	TG12	X	X	

WATER LEVEL DATA SET NUMBER: 84-0002
YEAR:1984 VESSEL/AGENCY: IOS,PARIZEAU

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	START YR	START MO	START DY	STOP YR	STOP MO	STOP DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	ADDIT SENSOR T	ADDIT SENSOR C
DIXON ENTRANCE	D06	54	12.18	131	56.94	84	04	18	84	10	20	185	30	118	118	TG12		X	
DIXON ENTRANCE	D15	54	33.07	131	21.28	84	04	16	84	10	21	188	30	110	110	WLR5	X	X	
HOUSTON-ST CH.		52	04.59	131	07.42	84	04	24	84	10	13		30	8	8	TG3A	X	X	
HECATE STRAIT		54	01.41	130	36.77	84	04	13	84	10	28		30	9	9	750A	X	X	
DIXON ENTRANCE		54	13.47	132	57.85	84	04	21	84	10	26		30	10	10	TG12	X	X	
DIXON ENTRANCE		54	44.82	132	50.68	84	04	15	84				30	10	10	750A	X	X	
DIXON ENTRANCE		54	47.62	131	58.08	84	04	15	84				30	10	10	750A	X	X	
DIXON ENTRANCE		54	56.05	130	57.63	84	04	16	84				30	15	15	750A	X	X	

11.4 WAVE DATA

The listings contain the following information:

AREA	Area
STN	Station number; generally as assigned by the originating agency.
LAT, LONG	In degrees and minutes.
START/STOP	Year, month and day instrument recorded over.
EFF LEN	Effective record length, in days.
DT (MN)	Sampling rate in minutes.
INST & WATER DPTH	In metres.
INSTR TYPE	635 - Sea Data pressure recorder WRDR - Datawell waverider WRIP - WRIPS w/internal Sea Data recorder WTRK - Endeco wave-track WVEC - WAVEC 750A - Applied Microsystems wave burst recorder
ADDIT SENSOR	Parameters measured qualified by: X - measurements of this parameter were made CA - possible calibration problems S - suspect readings C - constant readings O - zero or obviously bad readings

Blank entries indicate unavailable or inappropriate data.
? signifies data which are either unknown or may be suspect. For example, a location which plots on land.

WAVE DATA SET NUMBER: 68-0026
YEAR:1968 VESSEL/AGENCY: SEDCO 135F

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
HECATE STRAIT	B10	52	49.1	131	00.7	68	06	01	68	06	06	6			27		
HECATE STRAIT	B10	52	49.1	131	00.7	68	07	04	68	07	06	3			27		
HECATE STRAIT	B10	52	49.1	131	00.7	68	07	08	68	07	09	2			27		
HECATE STRAIT	B10	52	49.1	131	00.7	68	07	11	68	07	13	3			27		
HECATE STRAIT	E66	52	45.4	130	55.3	68	07	27	68	08	02	7			60		
HECATE STRAIT	G41	52	20.3	130	36.5	68	08	20	68	08	24	5			169		
HECATE STRAIT	I74	53	33.5	131	25.8	69	03	19	69	03	30	12			22		
HECATE STRAIT	L15	52	24.7	130	47.6	69	04	10	69	04	18	9			115		

WAVE DATA SET NUMBER: 72-0043
YEAR:1972 VESSEL/AGENCY: ?/MEDS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
CHATHAM SOUND	104	54	11.2	130	30.1	72	09	28	73	06	13	259					

WAVE DATA SET NUMBER: 76-0056
YEAR:1976 VESSEL/AGENCY: ?/MEDS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
CHATHAM SOUND	88	54	14.2	130	20.3	76	04	19	76	07	23	96					

WAVE DATA SET NUMBER: 77-0064
YEAR:1977 VESSEL/AGENCY: ?/MEDS

AREA	STN	LAT		LON		START			STOP			EFF	DT	DEPTHS		INST	ADDIT
		DEG	MIN	DEG	MIN	YR	MO	DY	YR	MO	DY	LEN	MN	INSTR	WATER	TYPE	SENSOR P T C
DIXON ENTRANCE	113	54	59.8	129	58.8	77	03	10?	78	02	26	355					

```
WAVE DATA SET NUMBER:  77-0065
YEAR:1977        VESSEL/AGENCY: ?/MEDS

   AREA          STN    LAT       LON       START     STOP    EFF DT    DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER  TYPE SENSOR
                                                                                     P T C

KITIMAT          118 53 58.9  128 39.2  77 07 10?78 03 22  256
```

```
WAVE DATA SET NUMBER:  81-0021E
YEAR:1981        VESSEL/AGENCY: SEAKEM,MEDS

   AREA          STN    LAT       LON       START     STOP    EFF DT    DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER  TYPE SENSOR
                                                                                     P T C

CHATHAM SOUND    126 54 35.   130 26.   81 05 01 82 03 02
```

```
WAVE DATA SET NUMBER:  82-0044
YEAR:1982        VESSEL/AGENCY: SEAKEM,MEDS

   AREA          STN    LAT       LON       START     STOP    EFF DT    DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER  TYPE SENSOR
                                                                                     P T C

LANGARA ISLAND   211 54 26.9  133 19.4  82 11 01 84 05 04                  293  WRDR
LANGARA ISLAND   212 54 26.2  132 48.3  82 11 06 84 04 30                  381  WRDR
BONILLA ISLAND   213 53 21.2  130 46.7  82 11 05 84 01 15                  156  WTRK
MCINNES ISLAND   214 52 06.8  128 57.5  83 04 21 84 05 15                  190  WVEC
HECATE STRAIT    215 52 11.6  130 20.5  82 10 01 84 05 20                  370  WRIP
Q.C.SOUND        216 51 18.5  129 57.6  82 10 01 84 05 21                  270  WRIP
```

```
WAVE DATA SET NUMBER:  83-0035
YEAR:1983        VESSEL/AGENCY: PARIZEAU,IOS

   AREA          STN    LAT       LON       START     STOP    EFF DT    DEPTHS    INST ADDIT
                     DEG MIN   DEG MIN   YR MO DY YR MO DY  LEN MN INSTR WATER  TYPE SENSOR
                                                                                     P T C

HECATE STRAIT    W05 53 10.4  131 16.5  83 05 14 83 09 20          37       39  750A X X
```

APPENDIX 1

REMARKS - METHODS, PROBLEMS AND ERRORS BY DATA-SET NUMBER

03-0001 CHS

MEDS files indicate data from Jan. 1, 1903-Dec. 31, 1926. Apparently continuous data are available for this station (9390, Port Simpson). For information regarding instrument type, sample interval, etc., contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364).

05-0002 CHS

No information could be found on instrument, sample interval, etc. Analyses were done by the Liverpool Observatory and Tidal Institute. For more information, contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364).

05-0003 CHS

Tabulated hourly heights, as well as times of high and low water, are on file at IOS. Further information may be obtained from Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364).

06-0002 CHS

Station 9354 is a permanent water-level recording station at Prince Rupert which was established in 1906. Details on methods, instruments, sample interval, etc. may be obtained from Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364).

07-0002 CHS

No information was found on instrument, sample interval, etc. Some early water level data consisted of times of high and low water only. Further information may be obtained from Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364).

09-0001 CHS

See 07-0002.

The MEDS files indicate measurements were obtained from the first day of the month to the last day of the month. The actual record length is generally less. In the case of station 9260 of this data set, the exact start/stop dates are unknown. The 9265 station record is contained on a strip chart at IOS; therefore this was not a high water/low water record.

10-0002 CHS

See 07-0002.

10-0003 CHS

See 07-0002.

11-0001 CHS

Water levels were measured using a Richard gauge. Times of high and low water are on file at IOS. Contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364).

11-0002 CHS

See 11-0001, except the gauge type is unknown.

12-0001 CHS

For all three stations, there exist times and/or heights of high and low water. A 29-day harmonic analysis exists for each station. No further information on the type of gauge, accuracy, etc. was on file. Further enquiries should be directed to Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364).

13-0002 CHS

The record for station 9425 consisted of high/low readings for the period July 5-Sept. 30, and a harmonic analysis form for July 5-Aug. 3. The exact start/stop days for the Sept.-Oct. 9850 record are unknown. Contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364) for more information.

14-0003 CHS

The station 9090 record exists as a harmonic analysis form (July 17-Aug. 12) and as times of high and low waters. No information was found on 9260. Contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364) for further details.

15-0003 CHS

The file at IOS for the station 8840 record indicates the wrong gauge was used and there was no record of reliability. Also see 07-0002.

16-0003 CHS

See 07-0002.

22-0001 CHS

See 07-0002.

23-0002 CHS

See 07-0002.

24-0002 CHS

The station 9060 data consist of a harmonic analysis form (July 15-Aug. 13) and as times of high and low waters. No information was found regarding the 9808 record. Contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364) for further details.

28-0003 CHS

The data for each of these stations consist of heights of high and low waters and a 29-day harmonic analysis form. Contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364) for further details.

30-0002 CHS

The data consist of heights of high and low waters and a harmonic analysis form. No details of instrument type, etc. were found. Further information may be obtained from Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364).

31-0003 CHS

See 30-0002.

34-0001 CATALYST, U. of Washington

POG (1956) includes the three stations occupied in Dixon Entrance by Dr. T.G. Thompson, of U. of Washington. No methods, accuracy, etc. are given but it is assumed that reversing thermometers and titration were used.

34-0002 Atmospheric Environment Services (AES) Meteorological Station, Cape St. James

Refer to Section 3.1 of this report.

35-0003 CHS

See 30-0002.

35-0004 DOT Light Station, Green Island

Refer to Section 3.1 of this report.

36-0003 ARMENTIERES, Pacific Biological Station (Nanaimo),

This was the first oceanographic survey of the region off Vancouver Island. Ekman bottles were used at depths of 1, 10, 25, 50, 100, 150, 200, 300, 400, 600 and 800 m. Water samples were returned to the Pacific Biological Station, Nanaimo, where salinities were determined by titration. Surface samples (bucket) were also collected every 10 minutes between stations. Time zone of recordings is GCT (Wooster et al., ed., 1961).

36-0004 DOT Light Station, Langara Island

Refer to Section 3.1 of this report.

37-0004 CATALYST, U. of Washington/POG (1956)

See 34-0001.

37-0008 DOT Light Station, Ivory Island

Refer to Section 3.1.

37-0009 DOT Light Station, Pine Island

Refer to Section 3.1.

38-0002 AMLAC, Pacific Biological Station (Nanaimo),

Ekman reversing bottles were used, and salinities determined by titration using a modified Mohr technique.

39-0001 DOT Light Station, Triple Island

Refer to Section 3.1.

40-0004 DOT Light Station, Langara Island

Refer to Section 3.1.

40-0005 DOT Light Station, Prince Rupert

Refer to Section 3.1.

40-0006 DOT Light Station, Masset

Refer to Section 3.1.

40-0007 DOT Light Station, Shannon Bay

Refer to Section 3.1.

41-0002 DOT Light Station, Port Clements

Refer to Section 3.1.

42-0003 CHS

No information regarding instrument, accuracy, etc. was found. Further enquiries should be directed to Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364).

43-0002 CHS

See 42-0003.

47-0003 CHS

The data consist of some times and heights of high and low waters (approx. 1 month) and a harmonic analysis form.

48-0009 Pacific Oceanographic Group (Nanaimo)

Drs. Tully of POG (FRB) and Cameron of UBC directed the cruise. Ekman reversing bottles were used. Salinities were determined by titration. Temperatures were measured mainly by BT's; however, some data were recorded using Richter and Wiese reversing thermometers. BT's were also deployed between some of the stations.

Seven anchor stations were occupied for periods of 10 to 40 hours. T/S profiles were made every 1-2 hours, and current drag measurements (0-18 m) at three of the stations. Trites (1953, 1956) discusses the results; however no station locations, times, etc. were reported, nor are they on file at MEDS. The original data log sheets are in the "vault" at IOS, Sidney, B.C.

49-0007 CHS

The July-Aug. data for these two stations consist of times and heights of high and low waters and harmonic analysis forms. Data for the Sept.-Oct. period are less extensive. No information on instrument type, accuracy, etc. was found. Further enquiries should be directed to Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364).

50-0006 CEDARWOOD, POG

Methods, accuracies are not provided (Scripps, 1960).

50-0010 CHS

The record for station 9242 exists as times and heights and a 29-day harmonic analysis form. Further enquiries should be directed to Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364).

51-0009 EHKOLI, UBC

Station 208 plots on Banks Island. The location (53°18'N, 129°57'W) is taken from IOUBC, 1953. Station 243 (55°46.8'N, 130°19.5'W) is offset from Portland Channel and is also the recorded position.

51-0012 CEDARWOOD, POG

See 51-0016.

51-0013 CHS

Data are available at IOS as tabulated hourly heights and daily means. Some information is also available on times and heights of high and low waters and monthly extremes.

51-0015 CHS

See 51-0013.

51-0016 CEDARWOOD, POG

Fjarlie reversing bottles were used; salinities were determined by titration (POG, 1956).

51-0017 CEDARWOOD, POG

The data were collected by PBS, Nanaimo and are on file with NODC. No details were available.

52-0013 CEDARWOOD, POG

The length of time for a drogue pole to "run out" a known amount of line was used to calculate surface current speed. Bottom currents (73 m) were also measured every 30 minutes using an Ekman meter (Mackay, 1953, 1954).

53-0016 CHS

The 1953 record at station 9053 (Butedale, Princess Royal Channel) was obtained using a portable Lege gauge. No details were found regarding the 1954 record. There was also mention of a 3-day record obtained in 1949.

The records for stations 9115 and 9242 exist as a 29-day harmonic analysis form at IOS. No other details were found.

53-0017 CHS

The data consist of times and heights of high and low waters and a 29-day harmonic analysis form.

53-0018 DOT Light Station, Sandspit

Refer to Section 3.1 of text.

54-0012 CEDARWOOD, POG

In conjunction with the bottle-cast data, current measurements were made near surface (drag) and at depth (Ekman meter). The vessel was anchored, generally for about 2 days, while data were collected at half- or one-hour intervals. Current-drag measurements were made using a crossed metal vane, buoyed by glass balls. The time for the drag to take up 30 to 50 m of payed-out line determined the current speed.

Surface temperatures were also measured every half hour, between stations.

54-0016 CHS

See 42-0003. Data consist of times and heights of high and low waters.

54-0017

The station 9414 record was obtained using a circular Foxboro gauge. The record is on file at IOS and has been transferred to a 29-day harmonic analysis form.

54-0018 DOT Light Station, McInnes Island

Refer to Section 3.1 of text.

55-0013 POG (1955b)

Current measurements were made as in 54-0012. All stations were made from the CEDARWOOD, except station T which was from the PARRY.

Surface samples were also collected between stations, every half hour.

55-0020 & JONQUIERE, POG
55-0021

Surface samples were also collected between stations every half hour.

55-0022 CHS

See 42-0003. The record from station 9808 exists as hourly heights and a 29 day harmonic analysis. No record from station 9765 could be found.

56-0015 CHS

See 42-0003.

56-0016 CHS

See 42-0003. The data exist on a 29-day harmonic analysis form stored at IOS.

56-0017 CHS

See 42-0003. The data exist as hourly heights and daily means, stored at IOS.

57-0008 OSHAWA, POG

This survey was largely offshore; of 68 stations, only 2 were in this study area. The method of salinity determination was not stated (POG, 1957).

57-0017 CHS

See 42-0003. The data are stored at IOS as hourly heights and a 74-day harmonic analysis.

57-0018 CHS

The station 9827 record is on strip chart at IOS and includes hourly heights. The 9850 record exists as original diagrams and hourly heights; the 9950 data as hourly heights.

57-0019 CLIFTON, UBC

No details on vessel, methods, etc. have been found.

58-0008 OSHAWA, POG

Salinities were determined by $S = 0.03 + 1.805\ Cl^o/oo$, using conductivity as a measure of Cl^o/oo by comparison with Copenhagen Standard water samples.

58-0012

See 42-0003. The record for station 9724 is on file at IOS and includes hourly heights and a 29-day harmonic analysis.

58-0014 OSHAWA, POG

Salinity (using $S = 0.03 + 1.805\ Cl^o/oo$) was determined using a conductivity salinometer.

59-0017 CHS

See 42-0003. The record for station 9724 is on file at IOS. The 9733 record is on file at IOS but has never been processed. No information was found for the 8830 record. For 8860, a 30-day harmonic analysis exists. The original 8906 record is on file, as well as a 28 day harmonic analysis.

60-0017 CHS

For most of the stations, the original records are on file at IOS and the data also exists as hourly heights and harmonic analyses. At station 9502, both a Lege and Foxboro gauge were used. The 9717 record has not been processed. For further information, contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364).

60-0018 DOT Light Station, Bonilla Island

Refer to Section 3.1 of text.

61-0021

Methods/accuracies were not specified (Antia et al., 1962).

61-0022 EHKOLI, Pacific Biological Station

Times are local (PST).

Fjarlie bottles were used to collect water samples. Salinities were determined using a salinometer. Samples with very low salinity were titrated.

Waldichuk et al. (1968) report results for data sets 61-0022, 62-0020, 64-0012, 67-0008 and 67-0009. No current measurements were made for 67-0009. The 67-0008 current data were obtained by CHS and were not reported in Waldichuk et al.

In 1967 (67-0008, 67-0009) a Beckman RS5-3 in-situ salinometer was also used. Differences of at least 1.0°/oo, between the RS5 and the bottle salinities, suggest an accuracy of about 1.0°/oo. Manufacturer's precision estimates were ±0.3°/oo and ±0.5C°.

Surface currents were measured using a C.B.I. (Chesapeake Bay Institute) drag or a current pole, and an Ekman meter was used for subsurface measurements.

61-0023 CHS

Station 8976, Bella Bella, is a permanent station, established July 1961. For details contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364). For the other three records, the original data are on file at IOS. The data for station 9063 exist as hourly heights and a harmonic analysis. The records for the other two stations were never processed.

62-0020 EHKOLI, POG

See 61-0022.

62-0027 CHS

For further information, contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364).

63-0011 WHITETHROAT, UBC

The method of salinity determination is unknown.

63-0017 CHS

Further enquiries should be directed toward Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364).

64-0010

The NODC # 31AC1766 indicates a vessel ID of AC which is the ACONA. However, there is some question as to whether it was the ACONA, or the AMLAC; there is no established two-letter code for the AMLAC. No documentation describing methods, accuracy, etc. has been found.

64-0012 EHKOLI, POG

See 61-0022.

64-0018 VELELLA, POG

The water level data were collected by Mr. Herlinveaux but were never formally processed. The data are on file with the Tides and Currents section of IOS.

64-0020 CHS

Contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364) for further details.

64-0022 CHS

Station 9850 at Queen Charlotte City is a permanent water-level gauging station, established in June 1964. For further details, contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364).

64-0023 CHS

Start/stop dates are not exact. For details regarding instrumentation, etc. contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364).

65-0011 ACONA?, ?

See comments under 64-0010.

65-0018 CHS

An Ottboro pressure gauge, recording on strip chart, produced the 9443 record. An unidentified pressure gauge was used at station 9448. No details were found regarding the 9418 record. Contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364) for further information.

65-0019 CHS

An Ottboro pressure gauge, recording on strip chart, was used to produce this record at Refuge Bay.

66-0021 CHS

Ottboro pressure gauges, recording on strip chart, were used to produce the station 9310 record and the Aug. 13-Sept. 14 portion of the 9315 record. It is unclear what instrumentation was used for the remaining portion of 9315. Contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364) for further information.

66-0022 Pacific Biological Station (Nanaimo)/Dodimead (1968)

BT data were collected using the G.B. REED and a chartered fishing vessel, the CANADIAN NO. 1. Some surface salinities were also measured; the method and locations are not reported in Dodimead (1968) but presumably are on file at POG, Nanaimo.

67-0008 PARRY, POG

See 61-0022.

67-0009 A.P. KNIGHT, POG

See 61-0022.

67-0014 Eurocan Pulp & Paper

The data are on file at the West Vancouver Laboratory of the Department of Fisheries and Oceans. For details, contact the Laboratory.

67-0022 ENDEAVOUR, POG

A Bissett-Berman CTD was used, except at stations 52 (Q.C. Sound), 147 and 151 (Offshore), where bottle casts were used. The data are on file at MEDS. Contact Mr. A. Dodimead, PBS, Nanaimo for further details (604-756-7027).

67-0023 VELELLA, INVESTIGATOR, A.P. KNIGHT, POG

Neyrpic current meters, recording on either waxed paper strips or punched tape, were suspended below a surface buoy which was anchored so as to keep the instruments directed along-channel. Record lengths varied for 1 to 22 days; short records were due to dead batteries, sticking directional units, and faulty connectors. This portion of the program was conducted using the Fisheries Research Board vessels INVESTIGATOR and A.P. KNIGHT.

T/S and surface drift measurements were also made using the barge VELELLA as a base.

67-0024 CHS

A Foxboro, Ottboro and an unspecified pressure gauge were used at stations 9060, 9391 and 9325, respectively. No further details were available and the enquiring reader should contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364).

67-0026 T.G. THOMPSON, ?

The data are on file at NODC (#31TT51191). No further details were available.

68-0012 CEDARWOOD, ?

No details were available. The data are on file at NODC (#31CD51497). The NODC file number indicates the vessel was the CEDARWOOD.

68-0022 ENDEAVOUR, POG

Contact Mr. A. Dodimead (604-756-7027) for more details.

68-0026 SEDCO 135F, DREP

A Pace Engineering Co. Model CP51 pressure transducer, having a range of 60 psi, was suspended from the semi-submersible drilling rig at a depth of about 9 m. An accelerometer was used to measure pressure fluctuations due to vertical motion of the drilling rig, which were subsequently subtracted out of the record. The measured subsurface attenuated pressure (P) was then converted to pressure variation at surface (Po) using $P = Po \exp(-4\pi^2 h/gT)$.

68-0027 CHS

No details regarding instrumentation, etc. were found. Further enquiries should be directed to Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364).

69-0030 LAYMORE, POG

See 67-0022.

69-0031 ENDEAVOUR, POG

See 67-0022.

69-0036 Dept. of Fisheries and Oceans/Kussat (1969)

Surface drogues were tracked and other unknown oceanographic data were collected during March, to investigate the effect of an outfall from a proposed pulp mill at Bella Coola. The reference by Kussat (1969) has not yet been obtained.

70-0020B VECTOR, UBC

Station 27, plotting on land west of S. Bentinck Arm, has the location recorded in IOUBC (1971).

70-0032 CHS

The start/stop dates for the 9391 record were unavailable. Contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364) for further details.

70-0037 Canadian Cellulose Ltd.

Current measurements were obtained by Ker, Priestman, Keenan & Assoc., 2659 Douglas Street, Victoria (604-388-6676). Contact Mr. John Brodie for further details.

71-0028 Canadian Cellulose Ltd.

Oceanographic observations have been made near the Canadian Cellulose pulp mill at Porpoise Harbour. No details are available regarding the 1971 (71-0028), 1972 (72-0037), or 1973 (73-0032) data. Some (possibly all) the data are on file at the B.C. Waste Management Branch, 810 Blanshard Street, Victoria; contact Mr. Fred Hodgson or Mr. Dave Morrison (604-387-4321). Canadian Cellulose Ltd. is presently called Weststar Timber (P.O. Box 1000, Prince Rupert; contact Mr. Doug Ho, their environmental engineer, 604-628-3671). Mr. W. Dwernychuk of Beak Consultants Ltd., Vancouver, was apparently in charge of the data collection.

71-0038 CHS

See 42-0003.

71-0046 EPS

T/S and O_2 were obtained during July. For further details, contact Mr. D. Goyette at EPS (604-666-6711).

72-0026 LAYMORE, Pacific Environmental Institute/Harbo et al. (1974)

Water and sediment samples were collected during four cruises; June, July and August 1972 (72-0026) and June 1973 (73-0024). Samples were collected in Kitimat Harbour and in Kitimat Arm/Douglas Channel. Water samples were collected using Van Dorn bottles; salinities were determined using an Auto-Lab 601 inductive salinometer. No accuracies were stated (Harbo et al., 1974). Apparently no temperatures were measured. Harbo et al. (1974) do not provide details of station dates and locations. Nominal locations and dates have been assigned as follows:

72-0026: 54°N128°40'W; June, July and August
73-0024: 54°N128°40'W; June 1973

Locations where interstitial sediment waters were obtained in June 1973 (73-0024) are provided by Harbo et al. (Table 2); however, it is unclear whether water column samples were also collected at these sites.

72-0036 LAYMORE, National Museum of Natural Sciences and Dept. of Fisheries and Oceans

From 1972 to 1975 two pulp mill sites (Swanson Bay and Cousins Inlet) were studied. Water samples were obtained 1 m off bottom using either a 1-litre Van Dorn sampler or Nansen bottles. Salinities were determined using a Guildline Autosal Model 8400 salinometer. Temperatures were measured using a standard mercury thermometer for surface (bucket) samples, and using a reversing thermometer for bottom temperatures. Station locations were determined by radar bearings. The location of station 0-3 was not obvious in the report.

The data collected are summarized below:

72-0036A: July 1, Cousins Inlet
Full T/S data collected by Meikle and Waldichuk (not processed yet). Biological and O_2 by Levings (72-0036A).

72-0036B: Dec. 3-4, Cousins Inlet
Bottom salinities, O_2.

73-0029: Apr. 2, Swanson Bay
Surface temperature only; bottom O_2

74-0041: Aug. 1, Cousins Inlet
Bottom temperature, salinity, O_2

75-0063: Nov. 19, Swanson Bay, Cousins Inlet
Bottom salinity, temperature, O_2

Further enquiries regarding the Dec. 1972 through Nov. 1975 data should be directed towards Dr. C.D. Levings of Fisheries and Oceans, West Vancouver (604-926-6747).

72-0037 Canadian Cellulose

See 71-0028.

72-0043

The collecting agency, methods, etc. for these wave data are unknown. Contact MEDS for further information. The instrument was probably a Waverider buoy.

73-0024 LAYMORE, Pacific Environment Institute/Harbo et al. (1974)

See 72-0026.

73-0029 LAYMORE, National Museum (Ottawa)

See 72-0036.

73-0032 Canadian Cellulose Ltd.

See 71-0028.

73-0040 CHS

A portion of the record, beginning July 27, was obtained using a Hagenuk pressure gauge with strip chart.

73-0041 CHS

An Ottboro pressure gauge, recording on strip chart, was used.

73-0042 CHS

A Foxboro pressure gauge, recording on strip chart, was used.

73-0047 Slaney and Co. Ltd. (1973)

Oceanographic data were obtained during March as part of an environmental impact assessment. Bathymetric soundings were made and a Hydrolab CT probe was used. The report (Slaney and Co. Ltd., 1973) could not be obtained, however Mr. J. McDonald of ESL, who was involved in the project, may be contacted for further information (604-656-1922).

73-0048 Dept. of Fisheries and Oceans

An oceanographic program was conducted to study potential environmental impact near Bella Coola. Surface currents may have been measured. Contact Mr. W. Schouwenburg of Dept. of Fisheries and Oceans, Salmonoid Enhancement Program, for more details.

73-0049 Dept. of Fisheries and Oceans

Two hydrographic casts were made on Oct. 26, 1973 during a biological study. These data are on file at the West Vancouver Laboratory, Dept. of Fisheries and Oceans.

73-0040 EPS/Packman (1977)

Two oceanographic surveys were conducted in 1974: July 8-12 (74-0040A) and Aug. 5-9 (74-0040B). Stations were located by horizontal sextant angles. Water samples were obtained using Nansen bottles. Temperature was measured, using a standard thermometer, as soon as the samples arrived at surface. The accuracy is less than that obtainable using reversing thermometers, although not specified by Packman (1977). Salinities were measured using a refractometer, calibrated by "hydrometric and electroconductivity techniques" (again no details provided).

74-0041 LAYMORE, Dept. Fisheries and Oceans

See 72-0036.

74-0042 Dobrocky Seatech for AMAX

Dobrocky Seatech, under the direction of Dr. J.L. Littlepage, began a three-year study of Alice Arm for the Climax Molybdenum Corporation.

In 1974 (74-0042) hydrocasts were made and temperature, salinity, O_2 measured. Krauel (1981) presents the data for stations F15 and Z7.

In 1975 (75-0064) further casts were made. Krauel (1981) presents data from station F15. No further details are available concerning the 1974 and 1975 data. For further details either refer to the reports by Littlepage (1978) or contact Dobrocky Seatech, Sidney, B.C.

74-0043 Dobrocky Seatech for Northcoast Env. Anal. Team (NEAT)

Dobrocky Seatech's vessel SEATECH II was used. Positions were determined by radar to ±.03 km. A Hydrolab "Surveyor" model 6D was used for T/S determination. Currents were measured, while anchored at station "S-3", using a Helle Model 4100 current meter.

Exact times and locations are not specified in the NEAT (1975) report. The Prince Rupert stations were the same as for 62-0020 and these locations have been used. A nominal date of Oct. 22 has been used here; the seven stations were actually occupied over the Oct. 22-23 period. The locations of the Port Simpson stations (S1, S2, S3) have been estimated from the figure in NEAT (1975). These stations were occupied Nov. 6.

74-0044 Canadian Cellulose Co. Ltd.

Beginning in February 1974, Canadian Cellulose Co. Ltd. (now Weststar Timber) conducted monthly hydrographic and biological surveys near the mill at Porpoise Harbour. Thirteen hydrographic stations were established and sampled once per month, weather and labour strikes permitting (Ho, 1978); 1.7 litre Nisken bottles are used. Temperature is measured using reversing thermometers (±.02°C); salinity by titration with silver nitrate. The program is continuing, with approximately 80% success rate for data acquisition (Ho, pers. comm.) Presently Beak Consultants of Vancouver is doing the work and reports are filed with the provincial government's Waste Management Branch, 810 Blanshard Street, Victoria. The listing shows the thirteen station positions for February 1974. A nominal monthly position of 54°14'N 130°18'W has been used for data obtained after this time.

74-0049 CHS

See 42-0003.

74-0050 EPS/Packman et al. (1975)

Station locations were extracted from a report in preparation by Seakem Oceanography Ltd. on the chemical oceanography data available in this area. For more information, contact Mr. D. Goyette at EPS (604-666-6711).

75-0061 EPS

For more information on this data set, contact Mr. D. Goyette at EPS (604-666-6711).

75-0063 LAYMORE, Museum Natural Science (Ottawa)

See 72-0036.

75-0064 Dobrocky/AMAX

See 74-0042.

75-0069 G.B. REED, PBS

As part of a groundfish study, bottom water temperatures were measured. BT's were used. Apparently no accompanying salinity data were obtained. The data are on file at MEDS under the BT category. The staff at PBS, Nanaimo should be contacted for further details.

75-0070 CHS

The start/stop dates may not be exact. No details on instrument used, etc. were found. Contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364) for further details.

76-0056

See 72-0043.

77-0043 IOS/Macdonald et al. (1978)

Station 6 shown in Whale Channel in the report is recorded at 53°00.65'N, 129°00.72'W. However, these coordinates are closer to Surf Inlet, which is to the southeast. Therefore, to better represent the actual location, assuming the station-location figure is correct, the coordinates used were 53°05'N, 129°09'W.

77-0058 EPS/Packman (1979a)

Temperature, salinity and dissolved oxygen were measured in June 1977 (exact dates not specified) as part of the EPS program to assess the environmental impact of the Canadian Cellulose Northern Operations pulp mill at Porpoise Harbour. Further measurements were made on July 13, 1978 (data set 78-0037). Packman (1979a) does not discuss methods, or accuracies, however apparently reversing bottles and an autosal salinometer were used (Mr. D. Goyette, EPS, pers. comm.). Further enquiries should be directed to EPS, Vancouver (604-666-6711).

77-0059 EPS

Bottle casts were made in the Hastings/Alice Arm area. For further details on the methods and accuracies of T/S determination, contact Mr. D. Goyette at EPS (604-666-6711).

77-0064

See 72-0043. The start date is uncertain, either March 10 or Oct. 6, 1977.

77-0065

See 72-0043. The start date is either July 10 or Oct. 8, 1977.

77-0067 CHS

The stop date may not be exact. A HWK float gauge with strip chart was used to record water level.

77-0068 CHS

An Ottboro pressure gauge with strip chart was used.

77-0079 Assoc. Eng. Services Ltd. for City of Prince Rupert

Vertical T/S profiles were obtained using an Aanderaa RCM-4 current meter, allowing 4 minutes for equilibration at each depth.

An Aanderaa RCM-4 was also moored on the harbour bottom for 11 days.

Radar-tracked surface drogues, drogued between 0 and 2 m depth, were used to map near-surface currents.

77-0080 Canadian Cellulose Co. Ltd.

H. A. Simons (International) made a study of the outfall design for Porpoise Harbour. A report was presented to Canadian Cellulose in 1979. Packman (1979) states that the program involved current studies. No further details are available. Further enquiries should be directed to Mr. Doug Ho of Weststar Timber (formerly Canadian Cellulose), 604-628-3671.

78-0028 IMPERIAL TOFINO/Dilke et al. (1979)

This was a "Ship-of-Opportunity" program whereby the commercial vessel IMPERIAL TOFINO was used to collect oceanographic data. Water samples were collected from the ship's intake, located amidship and approximately 3 m below surface. Conductivity was determined ashore using a Guildline 8400 salinometer. Temperature data were obtained by installing a thermometer in the seawater intake, and by an XBT on cruise 8 (78-0028G).

78-0029 SEALION, Seakem Oceanography Ltd. for IOS

Three cruises were conducted in June (78-0029A) and October (78-0029B), 1978 and February (78-0029C), 1979.

In June 1978 (78-0029A) an Applied Microsystems CTD 12 was used. Although manufacturer's specifications were ±0.03°/oo and ±0.02°C accuracy, the differences between CTD values and the bottle "calibration" values were generally ±0.2 to 0.5°/oo, and 0.0 to ±0.5°C.

During Oct. 1978 (78-0029B) and Feb. 1979 (78-0029C), bottle casts were made. Reversing thermometers measured temperature; salinities were measured on a Hytech 621 salinometer.

78-0037 EPS/Packman (1979a)

See 77-0058.

78-0057 CHS

The 9930 record was obtained using an Ottboro pressure gauge, recording on strip chart. The instrumentation used at station 9920 is unknown. Contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364) for further details.

79-0036 IMPERIAL TOFINO/Perry et al. (1981)

See 78-0028 for methods. XBT's were used on some of the cruises to obtain temperature profiles. Salinities are available at 3 m depth only. No information is available for 79-0036G. Contact Dr. T. Parsons at the University of British Columbia, Vancouver.

79-0051 EPS/Pomeroy (1983)

A Plessey 9400 CTD was first used by EPS in 1979. The quality of this data set (79-0051) and of the data in 1980 (80-0052) may not have been up to modern standards. Mr. D. Goyette at EPS (604-666-6711) should be contacted for further details.

79-0060 CHS

Ottboro pressure gauges, recording on strip chart, were used at the five stations: 9056, 9063, 9067, 9823, 9920. Contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364) for further details.

79-0065 OCEAN KING, CHS

Contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364) for further details.

79-0066 PANDORA, IOS (Tides and Currents)

During August a reconnaissance survey was made of saline waters near the mouth of the Skeena River (79-0066). Temperature and salinity were measured using an InterOcean CTD, and current profiles were obtained with a Marsh-McBirney meter.

In the first week of April 1984, a follow-up survey was made using a helicopter (84-0003). A Hydrolab CTD was used, as well as a Marsh-McBirney current profiler.

Another survey is planned for near-Christmas 1984.

The data are being processed and a report is forthcoming. Further enquiries should be directed to Mr. Al Ages at IOS (604-656-8341).

80-0042A Beak/Stockner and Levings (1982), Beak Consultants Ltd. (1981)

The report of the work done by Beak (1981) is not readily available. Our information was extracted from an edited summary (Stockner and Levings, 1982). Stations were concentrated near the mouth of the Yakoun River. A central location (53°40.2'N, 132°12.6'W) was used for the purposes of this report, although Figure 5 of Stockner and Levings (1982) indicates 10 pelagic and 8 river stations. T/S data, obtained using an Applied Microsystems CTD, for April 22 are plotted in Stockner and Levings (1982). Current data were also obtained using an Endeco 110 current meter and drogues.

80-0043A VECTOR, (Cruise OC-80-IS-003), EPS

Both IOS (Ocean Chemistry) and EPS personnel were on this cruise. T/S data were collected by EPS; see comments under 77-0059.

80-0043B VECTOR, EPS

See comments above.

80-0051 G.B. REID, PBS

The model of Bissett Berman STD, and the accuracy achieved were not specified in Mason et al. (1981).

80-0052 EPS/Pomeroy (1983)

See 79-0051.

80-0055B Fisheries Research/Dodimead and Ballantyne (1984)

The 1980 fisheries research surveys are a continuation of those of 1977-1979 (77-0066, 78-0047 to 78-0056, 79-0052, 79-0053, 79-0056). Oceanographic observations included those by expendable bathythermograph (XBT).

81-0018 PARIZEAU, IOS (Coastal Zone Oceanography)

The Coastal Zone Oceanography group, IOS, made CTD profiles using a Guildline 8700 unit. As well, Ocean Chemistry personnel used bottle casts for nutrient determination.

81-0021E Seakem, MEDS

The instrument was probably a Waverider buoy. Contact MEDS or Seakem Oceanography Ltd., Sidney, B.C. for further information.

81-0023 VECTOR, IOS (Ocean Chemistry)

The Ocean Ecology CTD-Rosette sampler was used to measure turbidity, salinity, temperature, chl. a, and light scattering. Fifty-three stations were completed. A string containing four sediment traps and two current meters was moored for three days; however, only one trap and one current meter were recovered.

81-0024A VECTOR, IOS (Coastal Zone Oceanography)

The data are presented in Ford and Nicoll (1983). The PRODAS-analog CTD system was used. EPS personnel, also on this cruise, made measurements of biota and minerals.

81-0024B VECTOR, IOS (Coastal Zone Oceanography)

CTD profiles were made by the Coastal Zone Oceanography group of IOS. EPS (Vancouver) personnel were also on board doing trace metal and biota studies (Goyette and Christie, 1982).

81-0053 Fisheries Research/Dodimead and Ballantyne (1984)

These 1981 surveys were similar to those of 1980. See 80-0055.

81-0054 IOS/Nicoll and Stucchi (1982)

The Institute of Ocean Sciences (both Chemical and Coastal Zone) and EPS were involved in data collection at Alice Arm during this period. CTD casts were made daily, as well as transmissivity readings. More than 1100 CTD casts were made (Nicoll and Stucchi, 1982). Water samples were collected to calibrate the CTD and transmissiometer (contact Dr. Rob Macdonald at IOS, 604-656-8409, or EPS, 604-666-6711 for more details). The water-sample salinities, as determined by bench salinometer, and the corresponding in-situ CTD salinities agreed to ±0.009°/oo (one standard deviation), based on 22 samples.

81-0055 ENDEAVOUR, IOS (Tides and Currents)

An Ottboro water level gauge was installed at Queen Charlotte (part of 64-0022 record). Eight moorings with bottom pressure gauges were then deployed in Dixon Entrance and Hecate Strait. The gauges were recovered during September (81-0056 cruise). A drift occurred in the station 2 record. At station 5, a hybrid instrument was used; the record was never fully processed. Contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364) for further details.

81-0056A ENDEAVOUR, IOS (Tides and Currents, UBC)

Three tide gauges were deployed in the Strait of Juan de Fuca for Offshore Oceanography, IOS. Water-level gauges were also installed at Winter Harbour and Heater Harbour for Coastal Zone Oceanography, IOS. The eight deep-water gauges deployed in February (81-0055) were also recovered. UBC personnel made CTD measurements in the Strait of Georgia (81-0056B). For further information regarding the water level data, contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364).

81-0057 Dobrocky Seatech Ltd. for AMAX of Canada Ltd.

From April 1981 to April 1983, Dobrocky Seatech Ltd. collected CTD/transmissivity, current-meter, and water-level data in Alice Arm for AMAX. Concurrent chemical and biological measurements were also made. Monthly cruises were conducted; the current meters and water-level gauges were serviced every two or three months.

Some of the current-meter records show poor response, particularly near the ends of the records, due to sediment build-up around the rotor bearings.

At some time in the program, apparently late 1982 or early 1983, a crack was discovered in the CTD conductivity cell. Dobrocky Seatech personnel believe that the 1981 and 1983 CTD data are of acceptable accuracy, based on comparison of the CTD salinities with those obtained from reversing bottles. Most of the 1982 data are suspect, with CTD and bottle salinities differing by about 0.2 or 0.3^{o}/oo on most cruises. In the annual report (AMAX, 1982), Dobrocky Seatech suggests that the April 16, May 13, October 14 and December 9 data are satisfactory, however, in April and May, salinity differences were 0.12 and 1.0 ^{o}/oo for two comparisons and it appears that the cell may also have adversely affected these data. The cell may have been replaced before the October and December cruises; the salinity comparisons are better. Dr. S. Narayanan of Dobrocky Seatech Ltd. should be contacted (604-656-0111) for further information on these data.

81-0058 through to 81-0065

See 81-0057.

81-0066 EPS

The data were obtained using a Plessey 9400 CTD system. Beginning in 1981, this method replaced the use of bottle casts. From 1981 on, the CTD was calibrated by Mr. J. Love of IOS.

81-0067 EPS

See 81-0066.

81-0068 EPS

See 81-0066.

81-0069 PARIZEAU, IOS

This was a Coastal Zone cruise, in cooperation with the Tides and Currents section. Current meter moorings were deployed along the shelf break, off Vancouver Island and Queen Charlotte Sound, as part of the SUPERCODE Project (Freeland, et al., 1984). Two of the moorings, Q05 (or QSC) and Q06, are at the offshore edge of Queen Charlotte Sound and have been included in this report. These moorings were serviced and re-deployed in Jan. 1982 (82-0034) and April-May 1982 (82-0046 and 82-0051).

For CTD data collected offshore as part of SUPERCODE, refer to the data compilation report for that area.

82-0025 IOS/Stukas (1983)

This study centred on the distribution of heavy metals in the mine tailings in Alice Arm. An Applied Microsystems CTD was used to obtain vertical profiles of temperature and salinity. The results from the October cruise were satisfactory, those from June were not quite as reliable (Stukas, pers. comm.). Further enquiries should be directed toward Dr. V. Stukas of Seakem Oceanography Ltd. (604-656-0881).

82-0034 PARIZEAU, IOS (Coastal Zone Oceanography)

The Coastal Zone Oceanography group, IOS, made CTD profiles using a Guildline 8700 unit. As well, Ocean Chemistry personnel made bottle casts for nutrient determination.

The six current meter moorings were recovered, serviced and redeployed. A transmissometer survey of the tailings plume was also conducted. The SUPERCODE offshore moorings (81-0069) were also serviced. Further enquiries should be directed toward Mr. Dario Stucchi of IOS (604-656-8288).

82-0036 VECTOR, IOS (Coastal Zone Group)

The Coastal Zone Oceanography group, IOS, made CTD profiles using a Guildline 8700 unit. As well, Ocean Chemistry personnel made bottle casts for nutrient determination. Sediment traps were also deployed and recovered.

82-0037 PARIZEAU, IOS (Coastal Zone Oceanography)

The Coastal Zone Oceanography group at IOS took CTD profiles. The station headers were received from Mr. D. Stucchi at IOS.

Dr. S. Pond of UBC also made current measurements using a "Cyclesonde". Four instruments were moored for the period Aug. 29-Sept. 7. See 82-0038.

82-0038 VECTOR, IOS (Coastal Zone Oceanography)

Both an analog and a digital CTD system were employed. Mr. D. Stucchi of IOS (604-656-8288) should be contacted regarding data quality.

82-0039 VECTOR, IOS

During March T/S data were obtained by the Ocean Chemistry group using reversing bottles (82-0039A). Salinities were determined at IOS using a Guildline (SN40-364) salinometer.

Approximately nine days later the Coastal Zone Oceanography group obtained CTD profiles (82-0039B).

82-0040 VECTOR, IOS (Ocean Chemistry)

Bottle casts were made by the Ocean Chemistry group (82-0040A). Temperatures were determined by means of reversing thermometers, salinities by means of a Guildline Autosal salinometer (SN 40-364) at IOS. Profiles were also made by EPS using a Plessey 1400 CTD coupled with a Seatech transmissometer. The CTD profiles were generally taken within one hour of the bottle casts listed in Section 11.

82-0044 Seakem Oceanography

Seakem Oceanography Ltd. made wave measurements at six locations. The actual number of days of data are reduced from that indicated by the Section 11 listings, due to equipment failure and buoys going adrift. For the exact periods of wave recording, contact Seakem Oceanography (Mr. Bodo de Lange Boom, 604-656-0881) or MEDS. The type of wave meter at each station were as follows:

Station:	211	212	213	214	215	216
Meter:	Waverider/FI	Waverider/FI	Endeco Wave Track 956	WAVEC	WRIPS 67379	WRIPS 67400

In the spring of 1984, Dobrocky Seatech took over the program (contact Dr. P. Greisman, 604-656-0111).

82-0045 EPS/Pomeroy (1983)

See 81-0066.

82-0046 PARIZEAU, IOS

Contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364) for further details regarding the water level data.

The SUPERCODE current meter moorings (81-0069 and 82-0034) were serviced and CTD data collected. For details on the offshore moorings and CTD data, refer to the data compilation report for that area.

82-0051 PARIZEAU, IOS

Contact Mr. M. Woodward, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8342) for further details regarding the water level data.

CTD and current-meter data were also collected. Agreement between the bottle and CTD salinities was good. Contact Dr. W. Crawford of Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8369) for further details.

82-0052 through to 82-0057

See 81-0057.

82-0058 UBC

During August 1982, four "Cyclesondes" were moored - two each in Alice Arm and Observatory Inlet. A "Cyclesonde" is a moored instrument which automatically cycles up and down its vertical tether. It is generally fitted to measure current (speed and direction), as well as pressure, temperature and conductivity. One instrument in Alice Arm produced no useful data. The data are still being analyzed; for further information, contact Dr. S. Pond at UBC (604-228-2205).

Similar data have also been collected in Knight Inlet, Indian Arm, and the Strait of Georgia.

82-0059 through to 82-0063

See 81-0057.

82-0064-67 EPS

See 81-0066.

82-0068 ENDEAVOUR, IOS (Tides and Currents)

The current meters and water-level gauges deployed in May (82-0051) were recovered and another set of CTD profiles were obtained. Contact Dr. W. Crawford, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8369) for further details.

83-0002A ENDEAVOUR, IOS (Ocean Ecology)

This study concerned the interaction of physical oceanographic features and plankton productivity. Surface T/S data were obtained from bucket samples. Subsurface CTD data were checked using Nisken bottle samples from the rosette sampler. The biological results, but not the CTD data, are discussed in Forbes et al. (1983). Further enquiries regarding these data should be directed toward Dr.K. Denman, Ocean Ecology, IOS (phone 604-656-8346).

83-0003 VECTOR, IOS Cruise OC-83-IS-003

This cruise was the third for the collection of water samples in Rupert Inlet, Holberg Inlet and Quatsino Sound. The data were to be used for an arsenic budget determination. The survey was extended to Alice Arm where IOS (Chemistry) made bottle casts (83-0003A). A series of CTD/transmissometer profiles were obtained by EPS along Portland and Observatory Inlets and in Alice Arm (83-0003B). IOS (Ocean Chemistry, 604-656-8409) should be contacted regarding methods and accuracy.

83-0014 VECTOR, IOS (Coastal Zone Oceanography)

CTD profiles were made using both an analog and a digital CTD system. Ocean Chemistry personnel were also on the cruise, retrieving and deploying sediment traps.

83-0021 CHS

Contact Mr. Fred Stephenson, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8364) for further details.

83-0034 IOS

Contact Mr. M. Woodward, Tides and Currents, IOS, Sidney, B.C. (phone 604-656-8342) for further details.

83-0035 PARIZEAU, IOS (Tides and Currents)

Twenty moorings were deployed in Hecate Strait. Two could not be recovered. Of the remaining eighteen, two were missing current meters which presumably had been removed by barge tow-lines. Forty-two current meters were recovered, and of these, seven had various "problems". Wave data were obtained using a bottom-mounted pressure recorder. However, due to the depth of the gauge (37 m), much of the wave information was lost through attenuation.

One of the lost current meters was subsequently recovered using the PISCES during October.

83-0036 PARIZEAU, IOS (Tides and Currents)

The first half of this PARIZEAU cruise (Sept. 5-17) was under the direction of the Offshore Oceanography group, and took place offshore of the Queen Charlotte Islands, in Queen Charlotte Sound and in Dixon Entrance (83-0036A).

From Sept. 18-29, Tide and Currents directed the cruise (83-0036B). The moorings in Hecate Strait were serviced, having been deployed in May as part of 83-0035. Four of six shore tide gauges were serviced, as were two tide gauges and one wave gauge on subsurface moorings.

Fourteen moorings were redeployed using thirty-two current meters, one tide gauge, and one wave gauge.

83-0037 Dobrocky Seatech for AMAX

During this cruise the current meters, last serviced in December 1982 (82-0057), were recovered. Apparently CTD profiles were also obtained, however no details are available. Contact Dobrocky Seatech Ltd. (604-656-0111) for further information.

83-0038,39 EPS

See 81-0066.

84-0002 PARIZEAU, IOS (Tides and Currents/Offshore Oceanography)

For further details, contact Dr. R. Thomson of IOS (phone 604-656-8255).

84-0003 Helicopter, IOS (Tides and Currents)

See comments under 79-0066.

84-0005 EPS

See 81-0066.

84-0006 Dobrocky Seatech Ltd.

Loran-tracked drifters, drogued at 10 m depth with "Holey Socks", were tracked during the June 13-25 period. Each drifter was tracked for 3-4 days, with positional updates every 30 minutes.

A CTD survey was also conducted using a Guildline 8706 "Arctic" CTD. Salinities from bottles agreed with the CTD salinites to within ±0.07 $^{o}/oo$.

An 80-foot seiner, the OCEAN ISLAND, was chartered for the work.

84-0007 PARIZEAU, IOS (Offshore)

The moorings deployed in April (84-0002) were recovered and re-deployed. Final recovery is planned for May 1985. CTD profiles were also obtained. For further information, contact Dr. R. Thomson at IOS (phone 604-656-8255).

APPENDIX 2

ADDRESSES OF INFORMATION SOURCES

AMAX of Canada
P.O. Box 12525
1066 W. Hastings St., Suite 1600
Vancouver, B.C.
V6E 3X1
Contact: Mr. Rick Killam
Phone: 604-689-0541

Defence Research Establishment Pacific
CFB Esquimalt
Victoria, B.C.
V0S 1B0
Phone: 604-388-1921

Dobrocky Seatech Ltd.
P.O. Box 6500
Sidney, B.C.
V8L 4M7
Phone: 604-656-0111

ESL Environmental Sciences Ltd.
2035 Mills Road
Sidney, B.C.
V8L 3S1
Contact: Mr. John MacDonald
Phone: 604-656-1922

Environmental Protection Service
Kapilano 100 - Park Royal
West Vancouver, B.C.
V7T 1A2
Contact: Mr. Darcy Goyette
Phone: 604-666-6711

IEC Beak Consultants Ltd.
120-10751 Shellbridge Way
Richmond, B.C.
V6X 2W8
Phone: 604-273-1601

Institute of Ocean Sciences
P.O. Box 6000
9860 West Saanich
Sidney, B.C.
V8L 4B2
Contact: Coastal Zone - Mr. Dario Stucchi   Phone: 604-656-8288
Ocean Chemistry - Dr. Rob Macdonald   Phone: 604-656-8409
Offshore - Dr. Rick Thomson   Phone: 604-656-8255
Tides & Currents - Mr. Fred Stephenson   Phone: 604-656-8364

Ker, Priestman, Keenan, and Assoc. Ltd.
2659 Douglas Street
Victoria, B.C.
V8T 4M3
Contact: Mr. John Brodie
Phone: 604-388-6676

Marine Environmental Data Services (MEDS)
Dept. of Fisheries and Oceans
12th Floor
200 Kent Street
Ottawa, Ontario
K1A 0E6
Phone: 613-995-2041

National Oceanographic Data Center (NODC)
NOAA, Code D761
2001 Wisconsin Ave. N.W.
Washington, D.C. 20235
Phone: 202-634-7500

Pacific Biological Station
Nanaimo, B.C.
V9R 5K6
Contact: Mr. Al Dodimead
Phone: 604-756-7027

Seakem Oceanography Limited
2045 Mills Road
Sidney, B.C.
V8L 3S1
Contact: Mr. Dave Thomas
Phone: 604-656-0881

University of British Columbia
6270 University Boulevard
Vancouver, B.C.
V6T 1W5

Waste Management Branch
B.C. Ministry of Energy, Mines & Petroleum Resources
810 Blanchard Street
Victoria, B.C.
Phone: 604-387-4321

Weststar Timber (formerly Canadian Cellulose)
P.O. Box 1000
Prince Rupert, B.C.
Contact: Mr. Doug Ho
Phone: 604-628-3671

APPENDIX 3

ABBREVIATIONS USED IN THIS REPORT

BT	Bathythermograph
CHS	Canadian Hydrographic Service
MOT,DOT	Ministry of Transport, Department of Transport; now Transport Canada
EPS	Environmental Protection Service
IOS	Institute of Ocean Sciences
IOUBC	Institute of Oceanography, University of British Columbia
MEDS	Marine Environmental Data Services Branch, Dept. of Fisheries and Oceans
NODC	National Oceanographic Data Center
PBS	Pacific Biological Station, Nanaimo
PEI	Pacific Environment Institute
POG	Pacific Oceanographic Group of the PBS, Nanaimo. In October 1970, POG was disbanded; the physical oceanographic group was transferred to other Canadian west coast establishments
UBC	University of British Columbia
XBT	Expendable Bathythermograph

CHEMICAL/BIOLOGICAL TERMS

Cl	Chlorine
Chl. a	Chlorophyll a
C^{14}	Radioactive isotope of carbon, C^{14}
F	Fluorine
HEC	Hexane extractable compound
Hg	Mercury
KME	Kraft mill effluent
N	Nitrogen
N_3	Azine
NH_3	Ammonia
NO_2	Nitrite
NO_3	Nitrate
O_2	Dissolved molecular oxygen
P	Phosphorous
PO_4	Phosphate
pH	The negative logarithm of the hydrogen-ion concentration
Si	Silicon
SiO_2	Silica
SiO_3	Silicate
TOC	Total organic carbon